


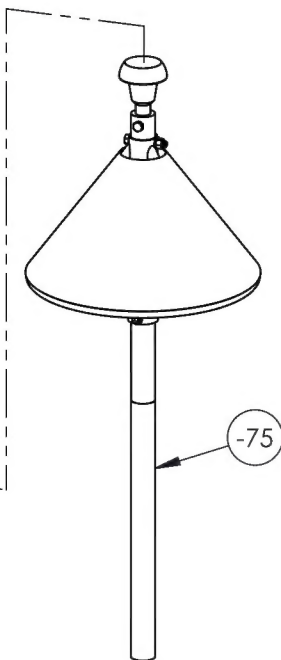
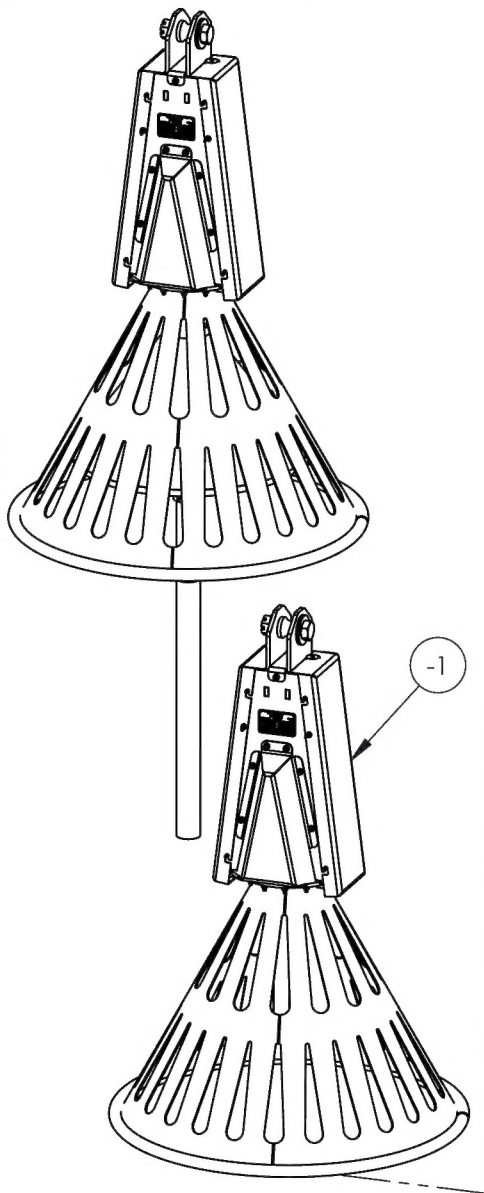
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| -89 | -75 | -61 | -49 | -47 | -39 | -3 | -1 | B/O | Part # | UNIT QTY | Description | Material | B/O INFORMATION OR SPECIFICATIONS | PG. |
|-----|-----|-----|-----|-----|-----|----|-----|-----|--------|----------|----------------------------------|-------------------|---|-----|
| | | | | | | | X | | -1 | 1 | MAIN ASSEMBLY | | | 3 |
| | | | | | | X | 1 | | -3 | | FRAME WELDMENT | | | 4 |
| | | | | | 2 | | | | -5 | | FRAME | HR P&O | | 5 |
| | | | | | 1 | | | | -7 | | UPPER RING | HR P&O | | 6 |
| | | | | | 1 | | | | -9 | | LOWER RING | HR P&O | | 7 |
| | | | | | 2 | | | | -11 | | LIFTING PLATE | HR P&O | | 8 |
| | | | | | 4 | | | | -13 | | GUSSET | HR P&O | | 9 |
| | | | | | 8 | | B/O | | -14 | | DOWEL PIN | S.S. | Ø1/4 X 3/4 (MCMASTER-CARR #97395A485) | 4 |
| | | | | | | 1 | | | -15 | | MAIN RING | 4140/4142 | | 10 |
| | | | | | | 4 | | | -17 | | ARM | 4140/4142 | | 11 |
| | | | | | | 4 | | | -23 | | LINK | 4140/4142 | | 12 |
| | | | | | | 14 | | | -27 | | LINK PIN | 4140 Q&T/4142 Q&T | | 13 |
| | | | | | | 1 | | | -29 | | CROSS | 4140/4142 | | 14 |
| | | | | | | 1 | | | -31 | | PUSH ROD | 4140 Q&T/4142 Q&T | | 15 |
| | | | | | | 1 | | | -33 | | PUSH ROD LINK | 4140/4142 | | 16 |
| | | | | | | 4 | | | -35 | | ANCHOR GUARD | 6061 | | 17 |
| | | | | X | | 1 | | | -39 | | CONE WELDMENT | | | 18 |
| | | | | 1 | | | | | -41 | | CONE | 304 | | 19 |
| | | | | | | | | | -41A | | CONE FLAT PATTERN | | | 20 |
| | | | | | 1 | | | | -43 | | CONE FLANGE | 304 | | 21 |
| | | | | | 1 | | | | -45 | | CONE RING | 304 | | 22 |
| | | | | | 1 | | | | -46 | | INSIDE CONE RING | 304 | | 23 |
| | | | | X | | | 1 | | -47 | | C2-VCT-5 HOOK ASSY | | | 24 |
| | | | | 1 | | | | | C2 | | C2 HOOK ASSY | | | 24 |
| | | | X | 1 | | | | | -49 | | LOAD BEAM ASSEMBLY | | | 25 |
| | | | 1 | | | | | | -51 | | LOAD BEAM | 4140/4142 | | 26 |
| | | | 1 | | | | | | C2-4-2 | | TRUNNION C2-HOOK | 4140/4142 Q&T | | 25 |
| | | | | | | | 1 | | -55 | | COVER | 1018/1020 | | 27 |
| | | | | | | | | | -55A | | COVER FLAT PATTERN | | | 28 |
| | | | | | | | 1 | | -57 | | CENTER COVER | 1018/1020 | | 29 |
| | | | | | | | 2 | | -59 | | SIDE COVER | 1018/1020 | | 30 |
| | | | | | | | | | -59A | | SIDE COVER FLAT PATTERN | | | 31 |
| 1 | X | | | | | | | | -61 | | TRIPOD ASSY | | | 32 |
| | 2 | | | | | | | | -63 | | HALF RING | 1018/1020 | | 33 |
| | 1 | | | | | | | | -65 | | SMALL HOOP | CDS | | 34 |
| | 1 | | | | | | | | -67 | | TOP RING | CDS | | 35 |
| | 3 | | | | | | | | -69 | | SUPPORT TUBE | CDS | | 36 |
| | 3 | | | | | | | | -71 | | UPRIGHT TUBE | CDS | | 37 |
| | 1 | | | | | | | | -72 | | SHROUD, TRIPOD | HR P&O | | 38 |
| | | | | | | | | | -72A | | SHROUD FLAT PATTERN, TRIPOD | | | 39 |
| X | | | | | | | | | -75 | 1 | PUCK ASSEMBLY | | | 40 |
| 1 | | | | | | | | | -77 | | ANCHOR | 4140 Q&T/4142 Q&T | | 41 |
| 2 | | | | | | | | B/O | -79 | | HEX HEAD CAP SCREW | STEEL | 1/2-20 X 3-1/4, GRADE 8 (MCMASTER-CARR #91257A745) | 40 |
| 1 | | | | | | | | B/O | -81 | | HEX HEAD CAP SCREW | STEEL | 1/2-20 X 2-3/4, GRADE 8 (MCMASTER-CARR# 91257A744) | 40 |
| 3 | | | | | | | | B/O | -83 | | WASHER | STEEL | Ø1/2 (MCMASTER-CARR #90126A033) | 40 |
| 3 | | | | | | | | B/O | -85 | | LOCK NUT | STEEL | 1/2-20, GRADE 8 (MCMASTER-CARR #97135A255) | 40 |
| X | | | | | | | 1 | | -89 | | COVER ASSY-SOLENOID SIDE | | | 42 |
| 1 | | | | | | | | | -91 | | COVER-SOLENOID SIDE | 1018/1020 | | 43 |
| | | | | | | | | | -91A | | COVER-SOLENOID SIDE FLAT PATTERN | | | 44 |
| 1 | | | | | | | | | -93 | | COVER TUBE | 1018/1020 | | 45 |
| | | | | | | 1 | B/O | | -95 | | SPRING | ZINC PLATED STEEL | 1.5 LG CENTURY SPRING# 72573 | 3 |
| | | | | | | 1 | B/O | | -97 | | PUSH ROD BUSHING | SINTERED BRONZE | Ø3/4 I.D. X Ø7/8 O.D. X Ø1-1/8 FLANGE O.D. X 1/8 FLANGE X 1/2 (SYMMCO #SF-2428-B) | 3 |
| | | | | | | 14 | B/O | | -99 | | SLEEVE BEARING | SINTERED BRONZE | Ø3/8 X Ø1/2 X 1/2 (SYMMCO #SS-1216-B) | 3 |
| | | | | | | 28 | B/O | | -101 | | THRUST BEARING | BRONZE | Ø3/8 I.D. X Ø5/8 O.D. X 1/16 (SYMMCO #ST-1220-2) | 3 |
| | | | | | | 14 | B/O | | -103 | | COTTER PIN | S.S. | Ø3/32 X 3/4 (MCMASTER-CARR #98401A442) | 3 |
| | | | | | | 2 | B/O | | -105 | | JAM NUT | STEEL | 3/4-16, THIN GRADE 8 (MCMASTER-CARR #93839A840) | 3 |
| | | | | | | 1 | B/O | | -107 | | WASHER | S.S. | Ø3/4 (MCMASTER-CARR #91950A036) | 3 |
| | | | | | | 14 | B/O | | -109 | | WASHER | S.S. | Ø3/8 (MCMASTER-CARR #91950A031) | 3 |
| | | | | | | 8 | B/O | | -111 | | BOLT | S.S. | 1/4-20 X 3-1/4 (MCMASTER-CARR #92198A555) | 3 |
| | | | | | | 4 | B/O | | -113 | | SOCKET HEAD CAP SCREW | S.S. | 1/4-20 X 1 (MCMASTER-CARR #92185A542) | 3 |

| -89 | -75 | -61 | -49 | -47 | -39 | -3 | -1 | B/O | Part # | UNIT QTY | Description | Material | B/O INFORMATION OR SPECIFICATIONS | PG. |
|-----|-----|-----|-----|-----|-----|----|----|-----|-----------|----------|-----------------------|-----------|---|-------|
| | 2 | | | | | | 4 | B/O | -115 | | BOLT | S.S. | 1/4-20 X 1-1/4 (MCMASTER-CARR #92198A544) | 3, 40 |
| | 2 | | | | | | 12 | B/O | -117 | | WASHER | S.S. | Ø1/4 (MCMASTER-CARR #96659A106) | 3, 40 |
| | 2 | | | | | | 12 | B/O | -119 | | LOCK NUT | S.S. | 1/4-20 (MCMASTER-CARR #91831A029) | 3, 40 |
| | | | | | | | 4 | B/O | -121 | | THUMB SCREW | SS | 1/4-20 x 1/2 (MCMASTER-CARR # 91744A537) | 3 |
| | | | | | | | 14 | B/O | -123 | | SOCKET HEAD CAP SCREW | S.S. | 1/4-20 X 1/2 (MCMASTER-CARR #92196A537) | 3 |
| | | | | | | | 14 | B/O | -125 | | LOCK WASHER | S.S. | Ø1/4 (MCMASTER-CARR #92146A029) | 3 |
| | | | | | | | 2 | B/O | -127 | | BOLT | STEEL | 5/16-24 X 2-23/32 AN5-25A | 3 |
| | | | | | | | 4 | B/O | -129 | | WASHER | S.S. | Ø5/16 X Ø5/8 O.D. (MCMASTER-CARR #98370A017) | 3 |
| | | | | | | | 1 | B/O | -131 | | LOOP CLAMP | STEEL | Ø3/8 (MCMASTER-CARR #3225T3) | 3 |
| | | | | | | | 1 | B/O | -133 | | HEX HEAD CAP SCREW | S.S. | 1/4-20 X 3/8 (MCMASTER-CARR #92240A535) | 3 |
| 1 | | | | | | | | | -181 | | PUCK TUBE UPPER | CDS | | 46 |
| 1 | | | | | | | | | -183 | | PUCK TUBE LOWER | CDS | | 47 |
| 1 | | | | | | | | | -185 | | TUBE INSERT UPPER | 4140/4142 | | 48 |
| 1 | | | | | | | | | -187 | | TUBE INSERT LOWER | 4140/4142 | | 49 |
| 1 | | | | | | | | | -189 | | STOP | CDS | | 50 |
| 1 | | | | | | | | B/O | -191 | | CHAIN | STEEL | 3/8, GRADE 100 3 LINKS (MCMASTER-CARR #34T0184 2FT) | 40 |
| 1 | | | | | | | | B/O | -193 | | HOSE | RUBBER | GAT32EFG5K X 7.8 in PACIFIC RUBBER | 40 |
| 3 | | | | | | | | B/O | -195 | | DOWEL PIN | STEEL | Ø1/2 X 2 (MCMASTER-CARR #98381A720) | 40 |
| 2 | | | | | | | | B/O | -197 | | T-BOLT CLAMP | S.S. | Ø2.516 TO Ø2.812 X 3/4 (APPLIED #TBC275SS) | 40 |
| | | | | | | | 1 | B/O | -219 | | DART PLACARD | ALUMINUM | #RB41011 | 3 |
| | | | | | | | 1 | B/O | -221 | | GROMMET | RUBBER | Ø1 (MCMASTER-CARR #9307K76) | 3 |
| | | | | | | | 1 | B/O | 20NR-89 | | COTTER PIN | STEEL | Ø1/8 X 2 (MCMASTER-CARR #98338A200) | 3 |
| | | | | | | | 4 | B/O | 20NR-85B | | LIFTING BOLT WASHER | STEEL | Ø1-1/16 I.D. (MCMASTER-CARR #90108A038) | 3 |
| | | | | | | | 1 | | 20NR-08 | | LIFTING BUSHING | 4140/4142 | | 3 |
| | | | | | | | 1 | | 20NR-07A | | LIFTING BOLT | STEEL | 1"-8 X 5-1/2, GRADE 8 (MCMASTER-CARR #91257A967) MODIFIED | 3 |
| | | | | | | | 1 | B/O | 20NR-07 | | LIFTING BOLT NUT | STEEL | 1"-8, GRADE 5 (MCMASTER-CARR #97190A040) | 3 |
| | | | | | | | 2 | B/O | AN960-516 | | CAGE BOLT WASHER | STEEL | Ø5/16 | 3 |
| | | | | | | | 2 | B/O | MS21044N5 | | CAGE BOLT LOCKNUT | STEEL | 5/16-24 | 3 |

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|  | | |
| TITLE VERTICAL CAPTURE TRANSPORT | | |
| DWG NO. VCT-5 | | REV 3 |
| MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 .XX ± .01 .X ± .1 | | DRAWN BY: GILBERT APPROVED <i>D Weil</i> TREAT FINISH SPEC |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | | USED ON MODEL |
| SCALE 1:8 | DATE 8/6/2014 | SHEET 1 OF 50 |

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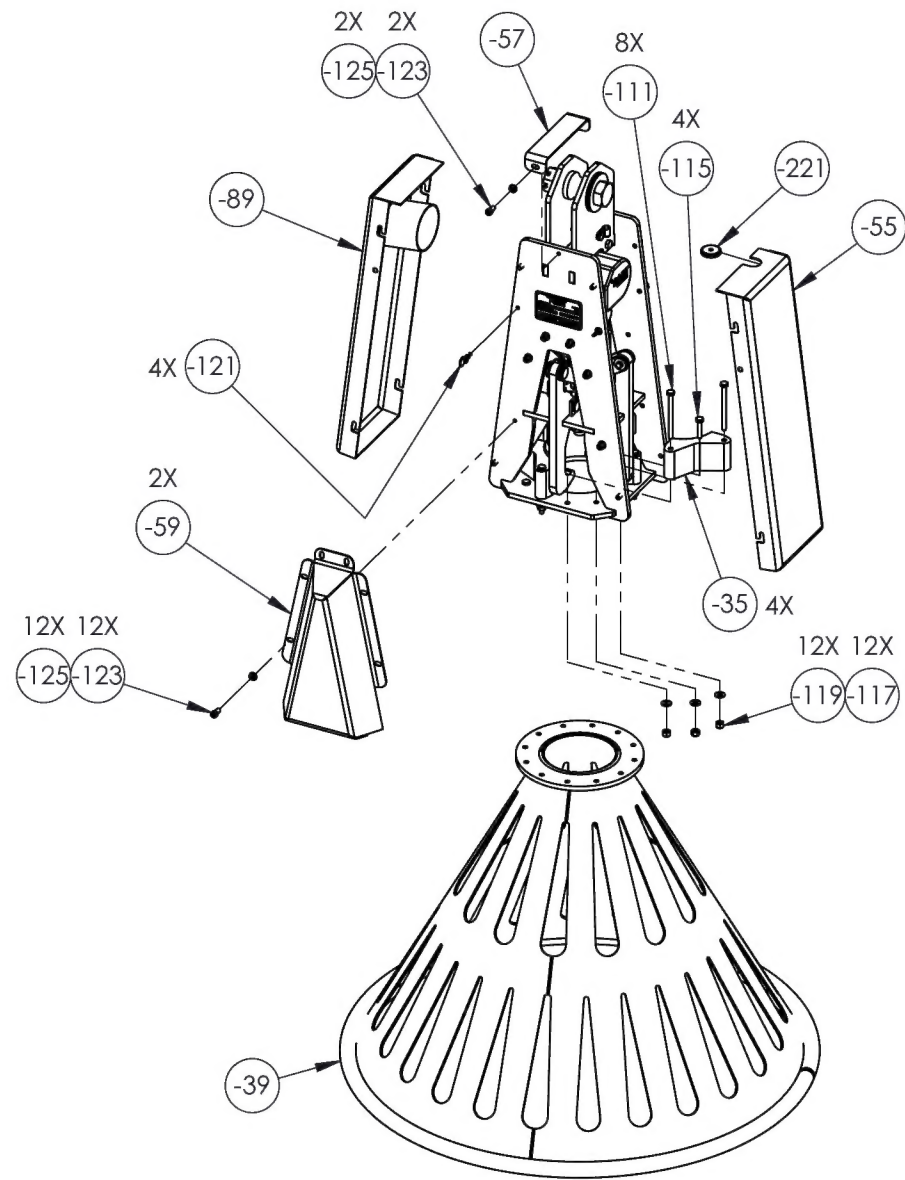
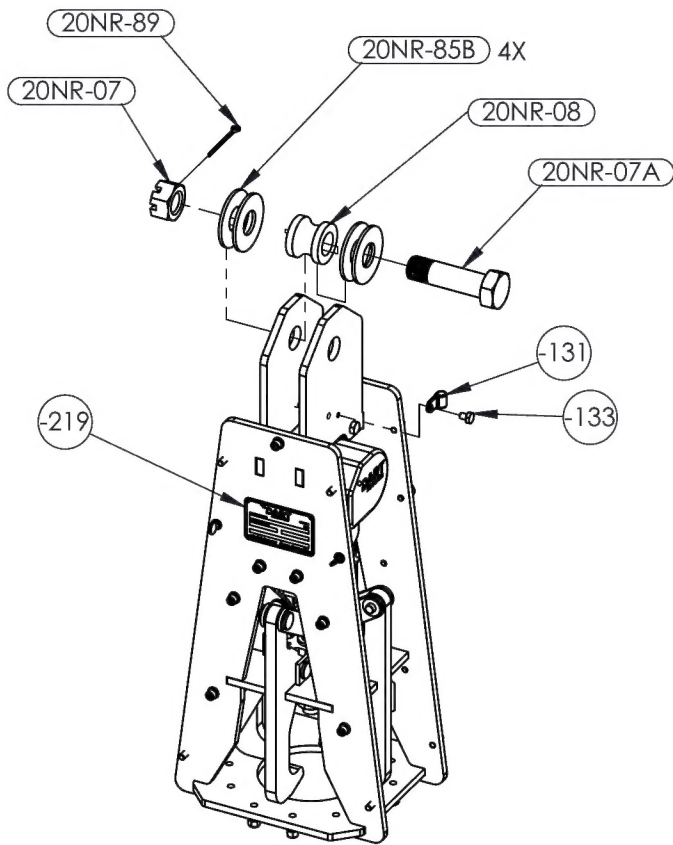
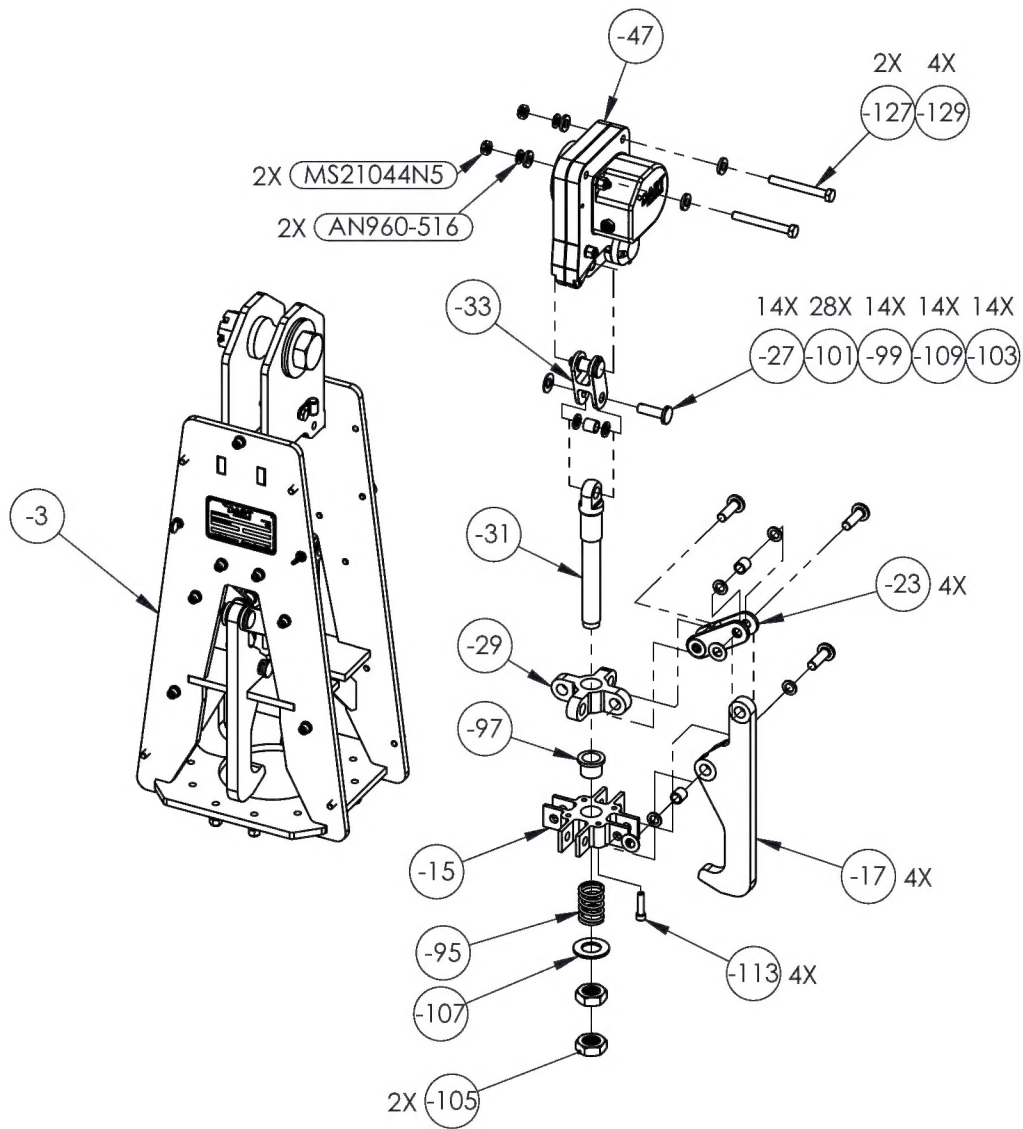


| REVISIONS | | | | | |
|-----------|---------|---|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 1 | 14-0212 | -39 INCREASED Ø BY 6" AND HEIGHT BY 5-5/8". CH'D MAT'L WAS STEEL IS SS. ADDED INSIDE CONE RING -46 . -41 INCREASED Ø BY 6" AND HEIGHT BY 5-5/8". CH'D FROM FULL LENG SLOTS TO 2 ROWS OF SLOTS. CH'D MAT'L WAS STEEL IS SS. ADDED VENDOR OPTION NOTE. -41A CH'D FROM FULL LENG SLOTS TO 2 ROWS OF SLOTS. CH'D MAT'L WAS STEEL IS SS. ADDED VENDOR OPTION NOTE. ADDED DXF NOTE. -43 CH'D MAT'L WAS HR P&O IS 304. -45 INCREASED Ø BY 6". CH'D MAT'L WAS 1018 IS 304. -46 ADDED SHEET. | 1/26/2015 | DPD | JAG |
| 2 | 15-0043 | UPDATED TO NEW DRAFTING STANDARDS. -1 DELETED -121, -135, -139, -141, -143, -145, -171, -173, -175, -179, 2X -117, 2X -119, 4X -123, 4X -125, 2X -131, 2X -133, C2-8HC-65, ADDED -211, -213, -215, -217, -219. -3 CH'D FINISH WAS POWDER COAT YELLOW FED #13538 IS POWDER COAT LIME GREEN. ADDED -14 TO WELDMENT. ADDED MASK BEFORE POWDER COAT NOTE. -5 UPDATED HOLE TABLE AND ADDED 4X LIMITS Ø.2490 - .2496, 2X LIMITS Ø.254 - .250. DELETED HOLE B1. ADDED DIMS 1.51, 2X .37, 2X 1.45, 2X .81, CH'D DIMS WAS 4.75 IS 5.36, WAS 20.25 IS 18.60. -7 CH'D DIMS WAS 2X 2.83 IS 2X 2.825 ±.010, WAS 3X 45° IS 45°, WAS 4X Ø.257 THRU ALL IS 4X Ø.257 THRU ALL EQUALLY SPACED. -11 CH'D DIMS WAS 8.13 IS 6.88, WAS 6.83 IS 5.18, WAS .87 IS 1.18, ADDED DIMS 2X .75, (.313), 5.65, DELETED DIMS 2X .25 X 45°, 2X 1/4-20 UNC-2B THRU ALL, 2X Ø.27 THRU ALL. -13 CH'D DIM WAS (.50) IS (.63). -15 CH'D DIMS WAS 4X .665 IS 4X .685, WAS (8X .17) IS (8X .16). -17 CH'D DIM WAS 2X LIMITS Ø.4385-4389 THRU ALL IS 2X LIMITS Ø.5008-5015 THRU ALL. ADDED DIMS 2X [SF] Ø1.00 MIN, 2X .495. -23 CH'D DIMS WAS 2X .665 IS 2X .685, WAS 2X .168 IS 2X .158, WAS (2X .168) IS (2X .158). -27 CH'D DIM WAS .02 X 45° IS 2X .02 X 45°. -29 CH'D DIMS WAS LIMITS Ø.4385-4389 THRU IS 4X LIMITS Ø.5008-5015 THRU, WAS 2X 3.50 IS (2X 3.50), WAS 7/8-14 UNF IS 7/8-20 UNEF. -31 REMOVE HEAT TREAT. CH'D DIMS WAS LIMITS Ø.4385-4389 THRU IS LIMITS Ø.5008-5015 THRU, WAS .500 IS .495, WAS 7/8-14 UNF IS 7/8-20 UNEF. -33 CH'D DIMS WAS 2X .665 IS 2X .685, WAS 2X .168 IS 2X .158, WAS (.168) IS (2X .158). ADDED DIM 2X .02 X 45°. -35 ADDED DIMS 2X .83, (R.390). -47 DELETED -53, DELETED TAPPED HOLE AND VIEW SHOWING TAPPED HOLE. -51 CH'D DIM WAS LIMITS Ø.4385-4389 THRU ALL IS LIMITS Ø.5008-5015 THRU ALL. ADDED DIMS .625, 45°. ADDED USE DXF PROFILE FOR CONTOURS NOTE. -55 & -91 REDESIGNED. -59 CH'D DIMS WAS 1.90 IS 2X 1.90, WAS 60° IS 3X 60°. ADDED DIMS 1.23, 2.22, 4.20, 6.19, 2X .44, R.25 TYP. -61 , -65 , -69 , -71 REDESIGNED. -67 CH'D MAT'L WAS STEEL IS CDS. -72 & -72A ADDED SHEETS. -73 DELETED SHEET. -93 DIM WAS 3.13 IS 3.20. -99 CH'D B/O INFO WAS SYMMCO SS-1214-8 IS SYMMCO SS-1216-8. -101 CH'D B/O INFO WAS MCMMASTER-CARR #92916A405 IS SYMMCO #ST-1220-2. -113 CH'D B/O INFO WAS #92185A564 IS #92185A542. -117 & -119 CH'D QTY WAS 16 IS 18. -181 ADDED DIMS .12 X 45°, Ø1.98 S.F. -193, 4.5, ADDED HOLE TIMING NOTE. ADDED FINISH POWDER COAT SAFETY ORANGE. -183 ADDED DIMS .12 X 45°, Ø1.98 S.F. -193, 9.8, ADDED FINISH PAINT GRAY OR RED. -185 CH'D DIM WAS Ø1.25 S.F. -181 IS Ø1.240(+.000-.005) S.F. -181, WAS .4985-.4992 IS .5006-.5009 THRU ALL. CH'D MAT'L WAS 1018 IS 4140/4142. ADDED HEAT TREAT RC 35-39. ADDED FINISH PAINT GRAY OR RED. -187 CH'D DIMS WAS Ø1.25 S.F. -183 IS Ø1.240(+.000-.005) S.F. -183, WAS LIMITS Ø.4989-.4996 IS LIMITS Ø.5006-5009 THRU ALL. CH'D MAT'L WAS 1018 IS 4140/4142. ADDED HEAT TREAT RC 35-39. ADDED NOTE PAINT GRAY OR RED. -197 CH'D B/O INFO WAS TBC-250S PACIFIC RUBBER IS APPLIED #TBC275SS. CH'D P/N'S WAS C2-20-25 IS MS21044N5, WAS C2-20-27 IS AN960-516. | 2/11/2015 | PMW | JAG |
| 3 | 15-0236 | -1 ADDED -221 GROMMET, CH'D -127 WAS 5/16-24 X 2-3/4 MCMMASTER-CARR #91257A615 IS 5/16-24 X 2-23/32 AN5-25A, -211 DELETED, 20NR-85B CH'D QTY. WAS 2X IS 4X. -5 CH'D D1 & D2 DIM WAS Ø.254-.250 THRU ALL IS 1/4-20 UNC -2B THRU ALL. -14 WAS Ø1/4 X 1 #97395A491 IS Ø1/4 X 3/4 #97395A485. -27 CH'D MATERIAL CALLOUT WAS 4140/4142 Q&T IS 4140 Q&T/4142 Q&T. -31 ADDED MIN. THREAD RELIEF CALLOUT. -55 ADDED MISSING DIM 1.68. -57 CH'D DIM WAS 1.50 IS 1.48 ±.00-.03. -61 CH'D FINISH WAS SAFETY ORANGE IS SAFETY YELLOW, ADDED NOTE 1. -72 CH'D DIM WAS Ø19.48 IS Ø19.60. -75 ADDED OVERALL HEIGHT 52.5 DIM. -55 , -57 , -59 , -91 , -93 CH'D MATERIAL CALLOUT WAS 1018 IS 1018/1020. -95 CH'D BOM INFO WAS 1.5 LG X 1.062 CENTURY SPRING 10645 IS 1.5 LG CENTURY SPRING #72573, -127 WAS 5/19-24 X 2-3/4 MCMMASTER-CARR #91257A615 IS 5/16-24 X 2-23/32 #AN5-25A. -181 AND -189 CH'D FINISH WAS POWDER COAT SAFETY ORANGE IS POWDER COAT SAFETY YELLOW. DELETED -211 , -213 , -215 , -217 , AND C2-8HC-83 . -221 ADDED GROMMET. 20NR-85B CH'D QTY. WAS 2X IS 4X. | 10/8/2015 | RJC | JAG |

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|---|-----------------------------|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5 | REV 3 |
| MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | DRAWN BY: GILBERT |
| .XXX ± .005 | APPROVED D Weil |
| .XX ± .01 | HEAT TREAT |
| .X ± .1 | FINISH |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | SPEC |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | USED ON MODEL |
| SCALE 1:16 | DATE 8/6/2014 |
| SHEET 2 OF 50 | |

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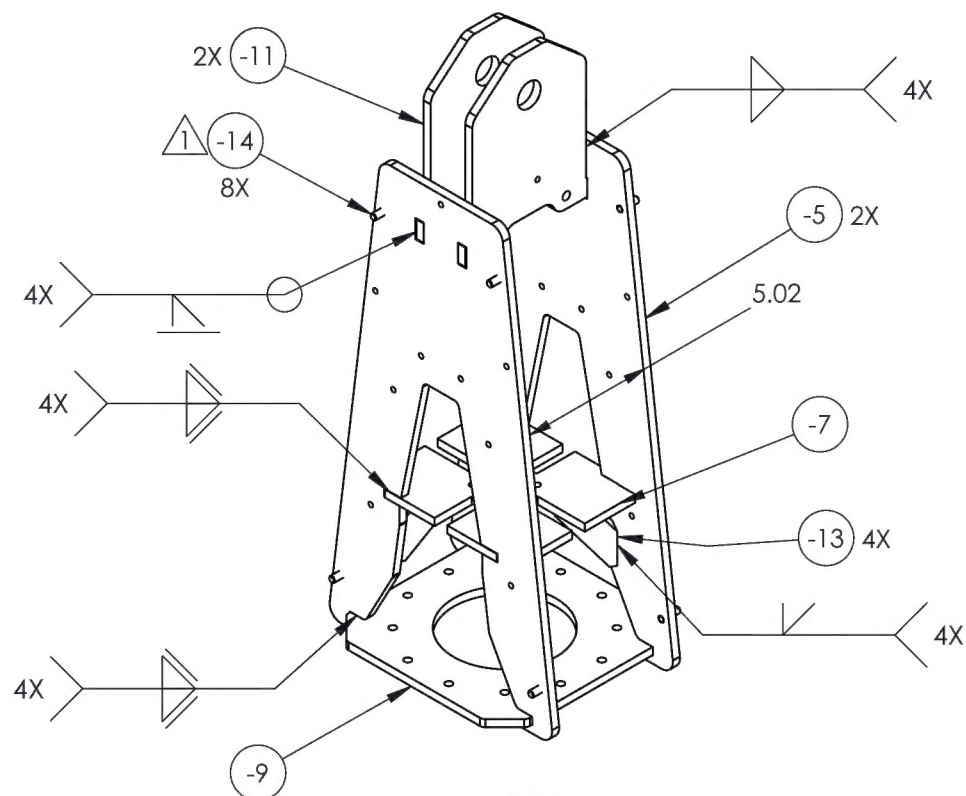
| REVISIONS | | | | | |
|-----------|---------|--|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 2 | 15-0043 | -1 DELETED -121, -135, -139, -141, -143, -145, -171, -173, -175, -179, 2X -117, 2X -119, 4X -123, 4X -125, 2X -131, 2X -133. ADDED -203, -205, -207, -209. | 2/11/2015 | PMW | JAG |
| 3 | 15-0326 | -1 ADDED -221 GROMMET, CH'D -127 WAS 5/16-24 X 2-3/4 MCMASTER-CARR #91257A615 IS 5/16-24 X 2-23/32 AN5-25A, -211 DELETED, 20NR-85B CH'D QTY. WAS 2X IS 4X. | 10/8/2015 | RJC | JAG |



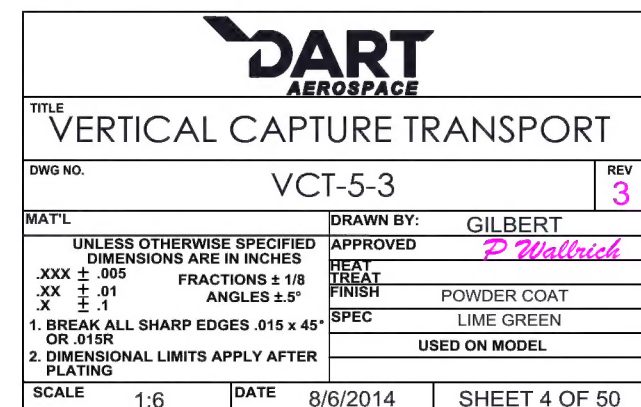
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MAIN ASSY

| DART AEROSPACE | | | |
|--|-----|----------------------------|----------|
| TITLE VERTICAL CAPTURE TRANSPORT | | | |
| DWG NO. VCT-5-1 | | | REV 3 |
| MAT'L | | DRAWN BY: GILBERT | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | | APPROVED <i>P Waltrick</i> | |
| .XXX ± .005 | | TREAT | |
| .XX ± .01 | | FINISH | |
| .X ± .1 | | SPEC | |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | | USED ON MODEL | |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | | | |
| SCALE | 1:8 | DATE | 8/6/2014 |
| | | SHEET 3 OF 50 | |

| REVISIONS | | | | | |
|-----------|---------|--|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 2 | 15-0043 | -3 CH'D FINISH WAS POWDER COAT YELLOW FED #13538 IS POWDER COAT LIME GREEN. ADDED -14 TO WELDMENT. ADDED MASK BEFORE POWDER COAT NOTE. | 2/11/2015 | PMW | JAG |

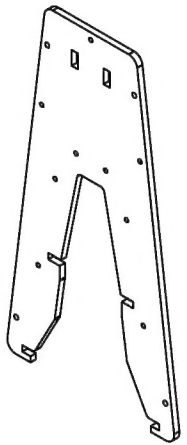
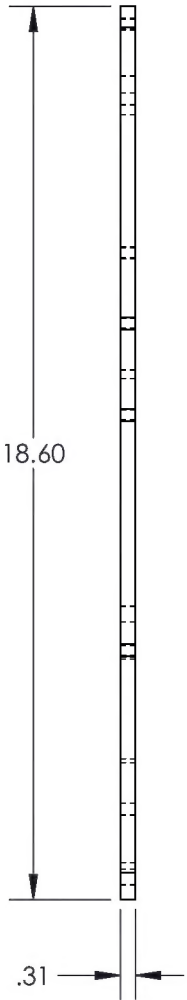
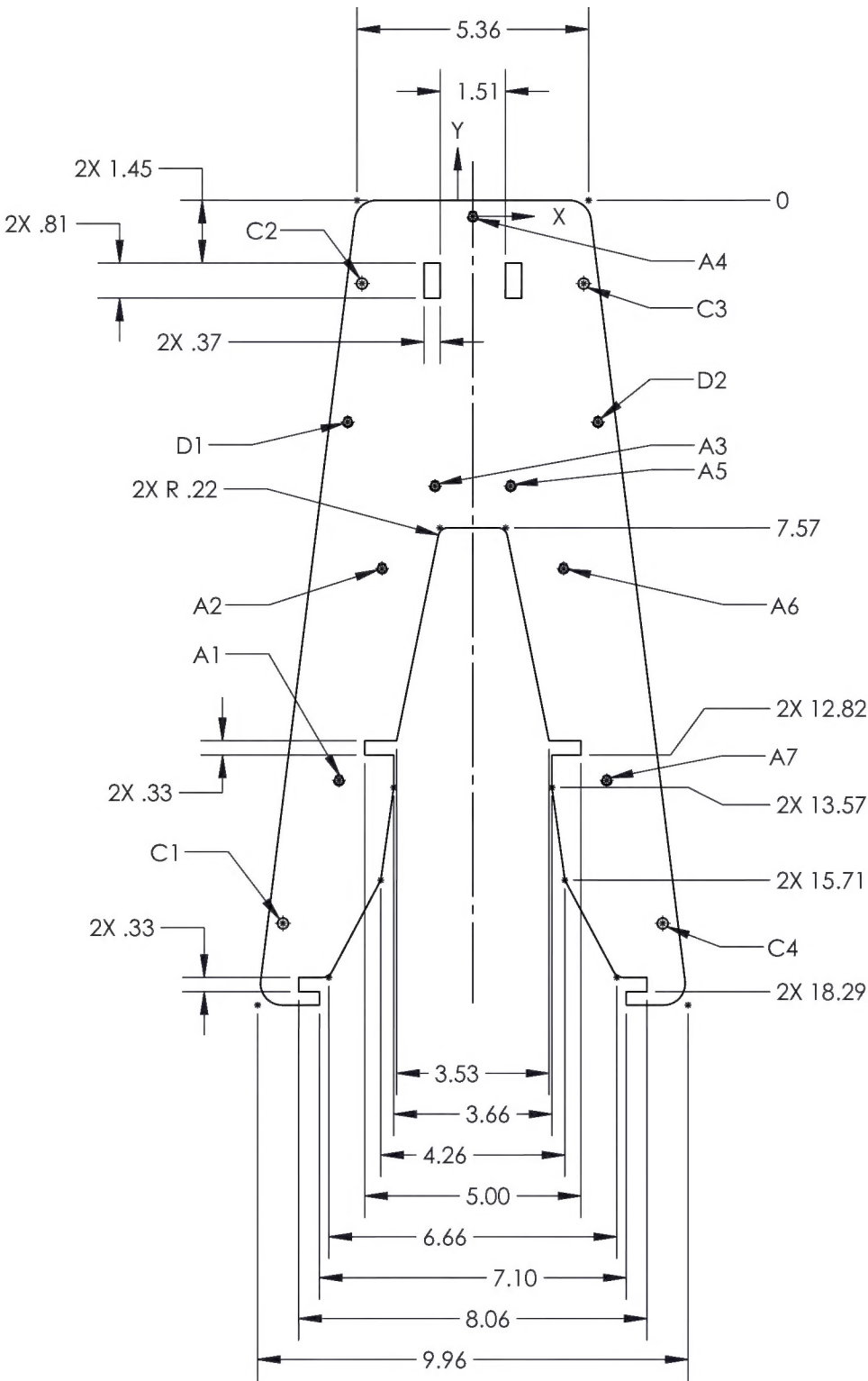


1 MASK BEFORE POWDER COAT.



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| REVISIONS | | | | | |
|-----------|---------|--|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 2 | 15-0043 | -5 UPDATED HOLE TABLE AND ADDED 4X LIMITS Ø.2490 - .2496, 2X LIMITS Ø.254 - .250, DELETED HOLE B1. ADDED DIMS 1.51, 2X .37, 2X 1.45, 2X .81. CH'D DIMS WAS 4.75 IS 5.36, WAS 20.25 IS 18.60. | 2/11/2015 | PMW | JAG |
| 3 | 15-0326 | -5 CH'D D1 & D2 DIM WAS Ø.254-.250 THRU ALL IS 1/4-20 UNC -2B THRU ALL. | 10/8/2015 | RJC | JAG |



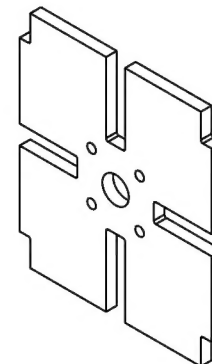
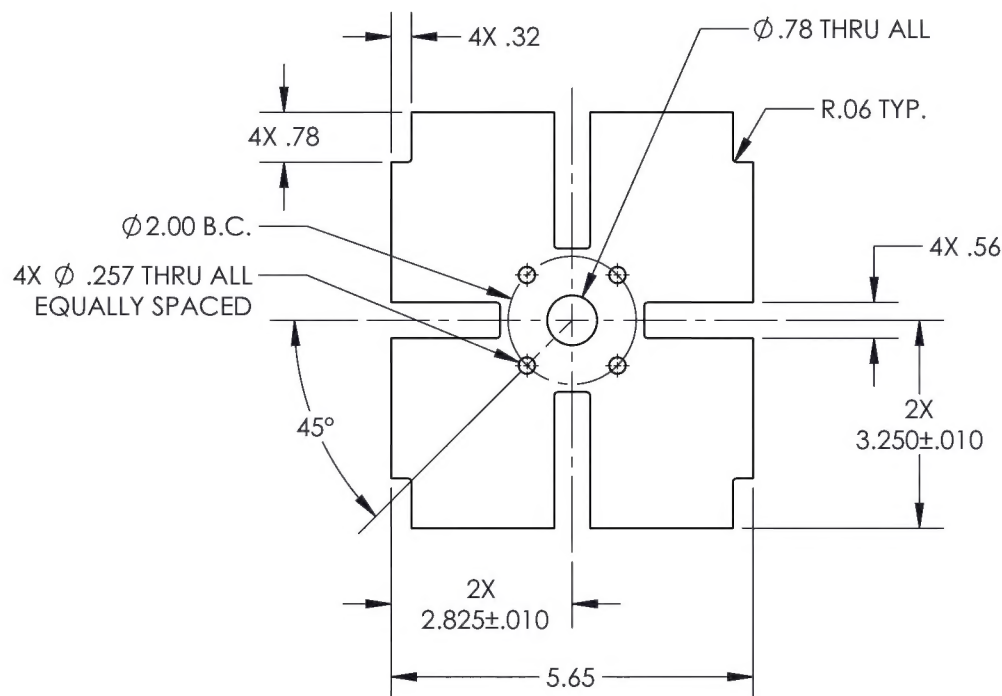
| TAG | X LOC | Y LOC | SIZE |
|-----|-------|--------|---------------------------|
| A1 | -3.10 | -13.41 | 1/4-20 UNC - 2B THRU ALL |
| A2 | -2.10 | -8.51 | |
| A3 | -.88 | -6.60 | |
| A4 | -.00 | -.38 | |
| A5 | .88 | -6.60 | |
| A6 | 2.10 | -8.51 | |
| A7 | 3.10 | -13.41 | |
| C1 | -4.39 | -16.71 | Ø .2496 .2490 THRU ALL |
| C2 | -2.57 | -1.92 | |
| C3 | 2.57 | -1.92 | |
| C4 | 4.39 | -16.71 | |
| D1 | -2.90 | -5.12 | 1/4-20 UNC - 2B THRU |
| D2 | 2.90 | -5.12 | |

(-5)
FRAME

| DART AEROSPACE | | | |
|--|------------------|-------------------------------|----------|
| TITLE VERTICAL CAPTURE TRANSPORT | | | |
| DWG NO. VCT-5-5 | | | REV 3 |
| MAT'L HR P&O | | DRAWN BY: GILBERT | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | | APPROVED <i>P Waltrick</i> | |
| .XXX ± .005 | | FRACTIONS ± 1/8 | |
| .XX ± .01 | | ANGLES ± 5° | |
| .X ± .1 | | FINISH SEE -3 WELDMENT | |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | | SPEC | |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | | USED ON MODEL | |
| SCALE 1:4 | DATE 8/5/2014 | SHEET 5 OF 50 | |

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| REVISIONS | | | | | |
|-----------|---------|--|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 2 | 15-0043 | -7 CH'D DIMS WAS 2X 2.83 IS 2X 2.825±.010, WAS 3X 45° IS 45°, WAS 4X Ø.257 THRU ALL IS 4X Ø.257 THRU ALL EQUALLY SPACED. | 2/11/2015 | PMW | JAG |

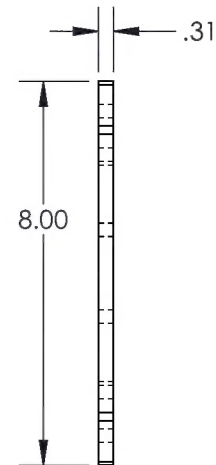
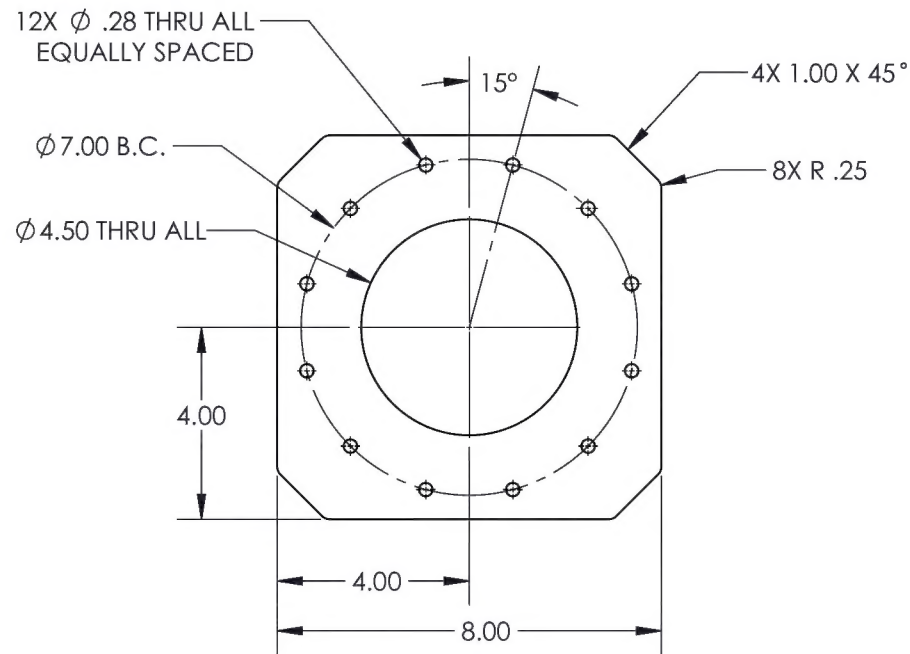
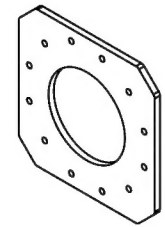


(-7)
UPPER RING

| | |
|--|----------------------------|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-7 | REV 3 |
| MAT'L HR P&O | DRAWN BY: GILBERT |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED P Walbrich |
| .XXX ± .005 | HEAT TREAT |
| .XX ± .01 | FINISH SEE -3 WELDMENT |
| .X ± .1 | ANGLES ± 5° |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | SPEC |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | USED ON MODEL |
| SCALE 1:3 | DATE 8/5/2014 |
| SHEET 6 OF 50 | |

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| REVISIONS | | | | |
|-----------|-----|-------------|------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL |
| | | | | APPROVED |

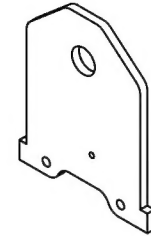
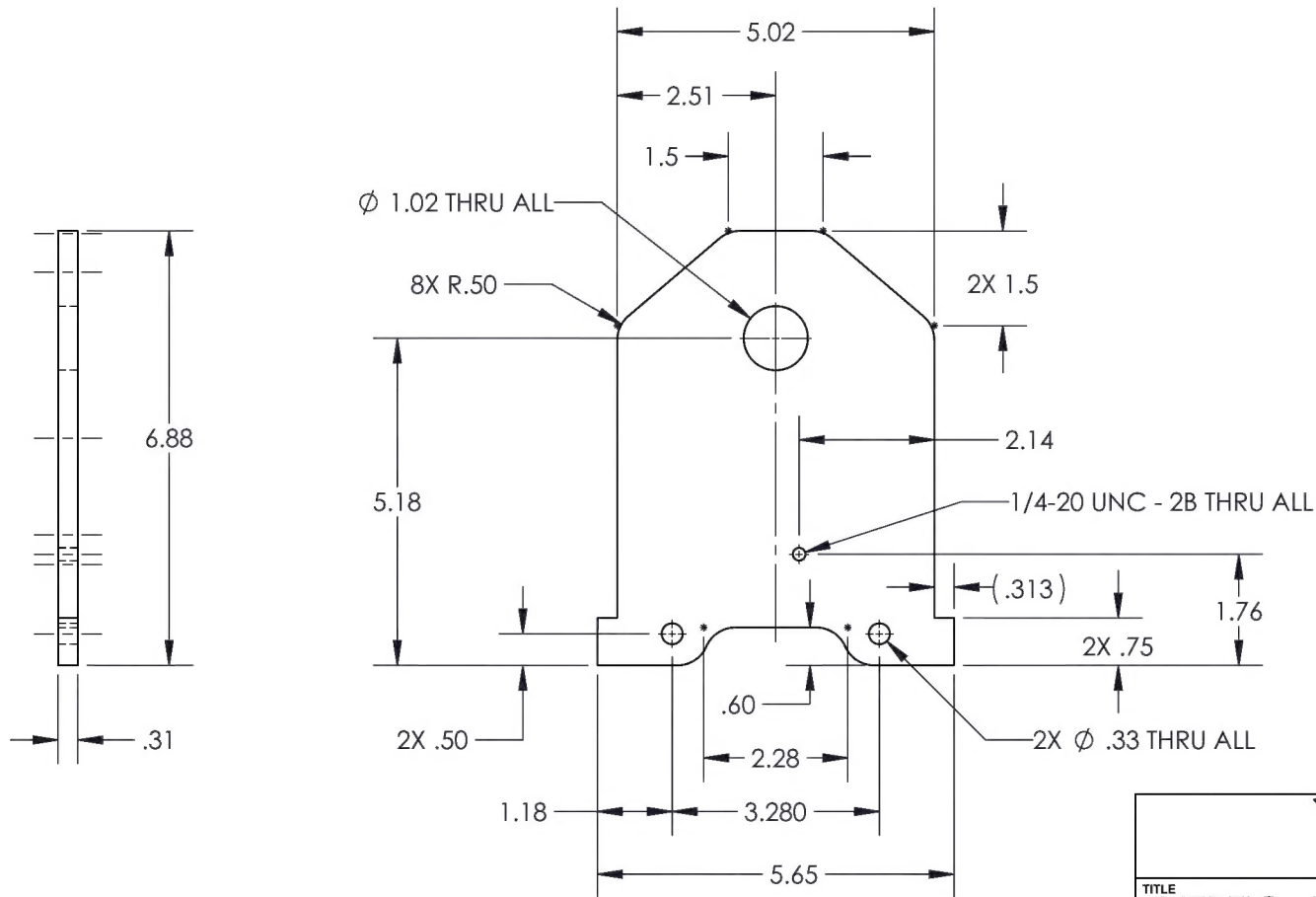


(-9)
LOWER RING

| | |
|--|---|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-9 | REV 3 |
| MAT'L HR P&O UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± .5° .X ± .1 | DRAWN BY: GILBERT APPROVED P Walbrich HEAT TREAT FINISH SEE -3 WELDMENT SPEC USED ON MODEL |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| SCALE 1:4 | DATE 8/5/2014 |
| SHEET 7 OF 50 | |

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| REVISIONS | | | | | |
|-----------|---------|---|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 2 | 15-0043 | -11 CH'D DIMS WAS 8.13 IS 6.88, WAS 6.83 IS 5.18, WAS .87 IS 1.18, ADDED DIMS 2X .75, (.313), 5.65, DELETED DIMS 2X .25 X 45°, 2X 1/4-20 UNC-2B THRU ALL, DELETED 2X Ø.27 THRU ALL. | 2/11/2015 | PMW | JAG |

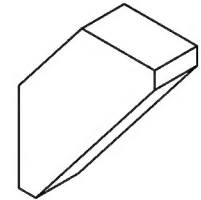
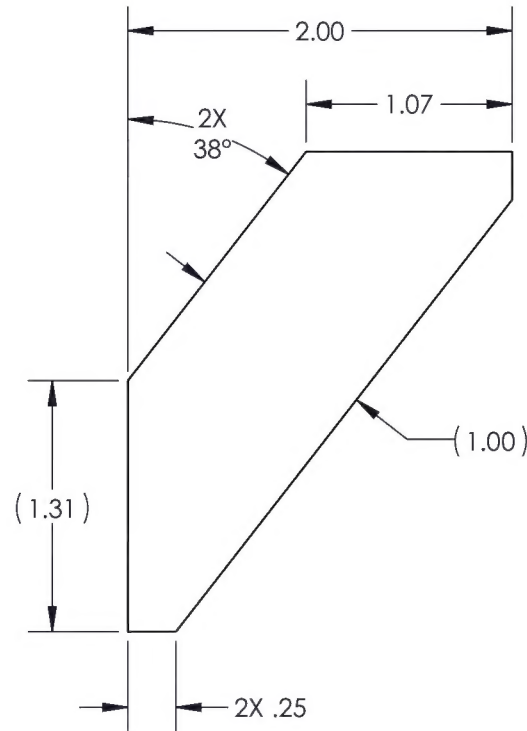
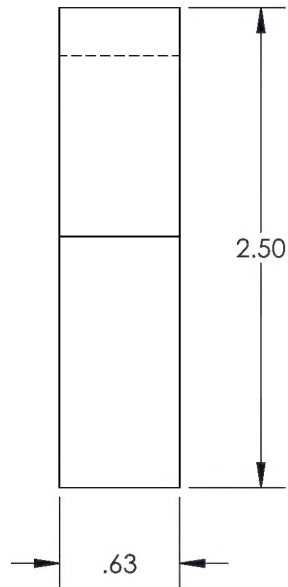


(-11)
LIFTING PLATE

| | |
|--|----------------------------|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-11 | REV 3 |
| MAT'L HR P&O | DRAWN BY: GILBERT |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED P Walbrich |
| .XXX ± .005 FRACTIONS ± 1/8 | HEAT TREAT |
| .XX ± .01 ANGLES ± 5° | FINISH SEE WELDMENT -3 |
| .X ± .1 | SPEC |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | USED ON MODEL |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| SCALE 1:3 | DATE 8/5/2014 |
| SHEET 8 OF 50 | |

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| REVISIONS | | | | | |
|-----------|---------|----------------------------------|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 2 | 15-0043 | -13 CH'D DIM WAS (.50) IS (.63). | 2/11/2015 | PMW | JAG |

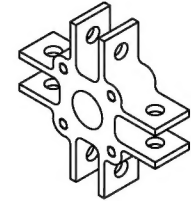
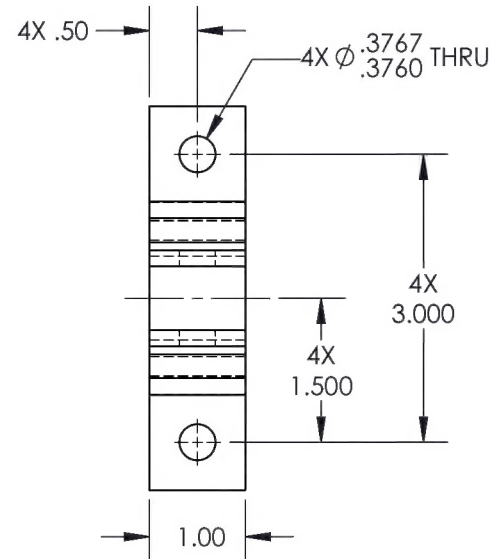
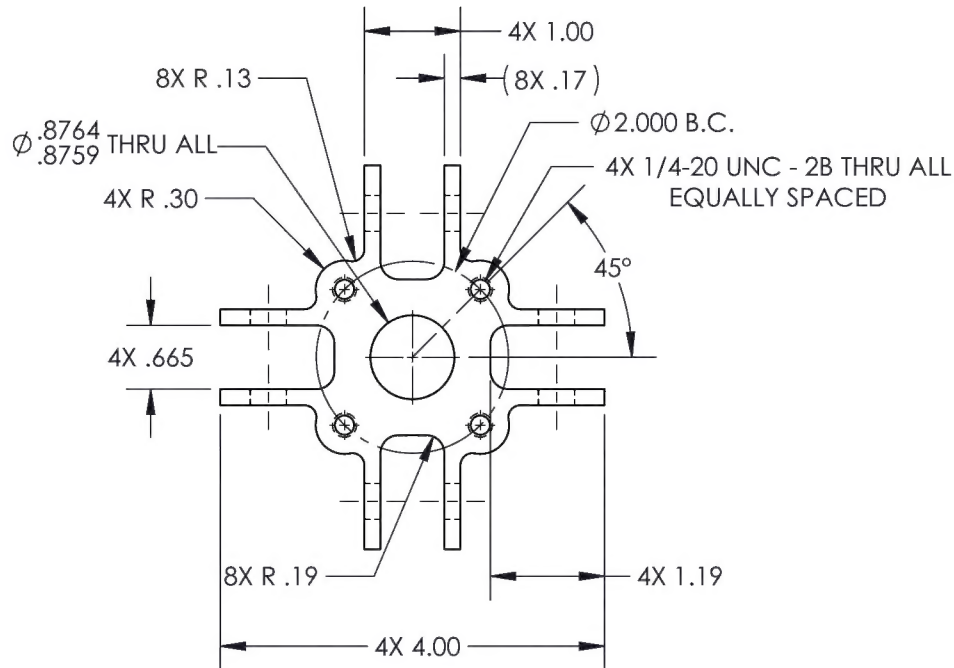


(-13)
GUSSET

| | |
|--|----------------------------|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-13 | REV 3 |
| MAT'L HR P&O | DRAWN BY: GILBERT |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED P Walbrich |
| .XXX ± .005 | HEAT TREAT |
| .XX ± .01 | FINISH SEE -3 WELDMENT |
| .X ± .1 | ANGLES ± .5° |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | SPEC |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | USED ON MODEL |
| SCALE 1:1 | DATE 8/5/2014 |
| SHEET 9 OF 50 | |

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| REVISIONS | | | | | |
|-----------|---------|---|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 2 | 15-0043 | -15 CH'D DIMS WAS 4X .665 IS 4X .685, WAS (8X .17) IS (8X .16). | 2/11/2015 | PMW | JAG |



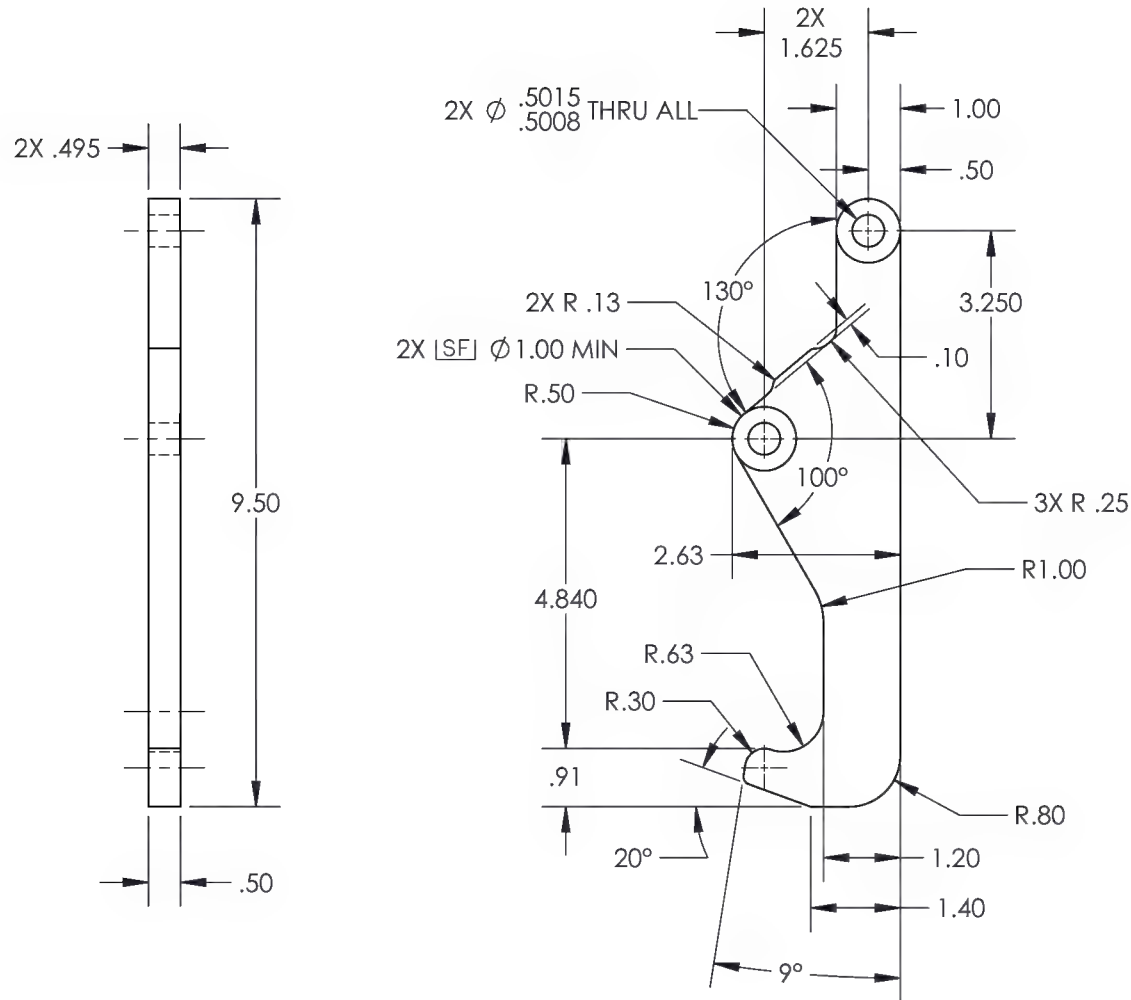
NOTE:
1. NICKEL PLATE .0004 - .0006, BAKE AFTER PLATING.

(-15)
MAIN RING

| | |
|--|-------------------------|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-15 | REV 3 |
| MAT'L 4140/4142 | DRAWN BY: GILBERT |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>P. Weil</i> |
| .XXX ± .005 FRACTIONS ± 1/32 | HEAT TREAT RC 35-39 |
| .XX ± .01 ANGLES ± 5° | FINISH SEE NOTE 1 |
| .X ± .1 | SPEC |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | USED ON MODEL |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| SCALE 1:2 | DATE 8/5/2014 |
| SHEET 10 OF 50 | |

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| REVISIONS | | | | | |
|-----------|---------|---|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 2 | 15-0043 | -17 CH'D DIM WAS 2X LIMITS Ø.4385-.4389 THRU ALL IS 2X LIMITS Ø.5008-.5015 THRU ALL. ADDED DIMS 2X [SF] Ø1.00 MIN, 2X .495. | 2/11/2015 | PMW | JAG |



NOTE:
1. NICKEL PLATE .0004 - .0006, BAKE AFTER PLATING.

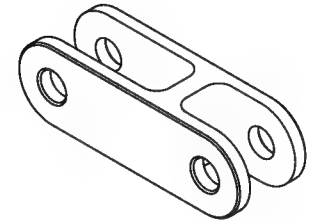
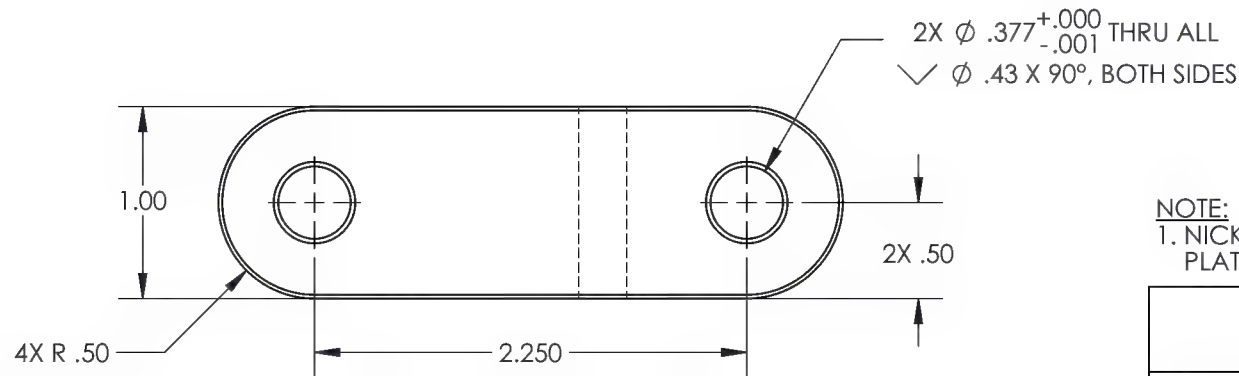
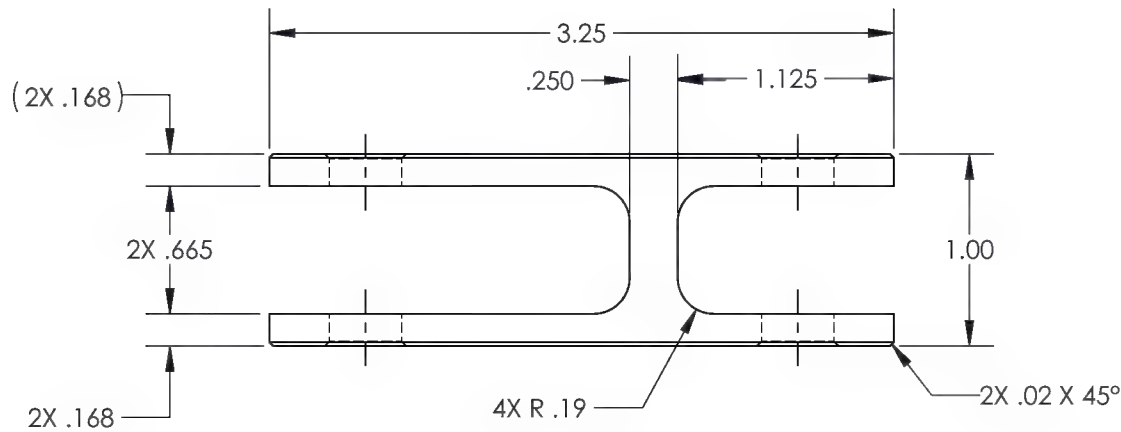
| | |
|--|-------------------------|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-17 | REV 3 |
| MAT'L 4140/4142 | DRAWN BY: GILBERT |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>P. Weil</i> |
| .XXX ± .005 | HEAT TREAT RC 45-49 |
| .XX ± .01 | FINISH SEE NOTE 1 |
| .X ± .1 | SPEC |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | USED ON MODEL |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| SCALE 1:3 | DATE 8/4/2014 |
| SHEET 11 OF 50 | |

(-17)

ARM

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| REVISIONS | | | | | |
|-----------|---------|---|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 2 | 15-0043 | -23 CH'D DIMS WAS 2X .665 IS 2X .685, WAS 2X .168 IS 2X .158, WAS (2X .168) IS (2X .158). | 2/11/2015 | PMW | JAG |



NOTE:
1. NICKEL PLATE .0004 - .0006, BAKE AFTER PLATING.

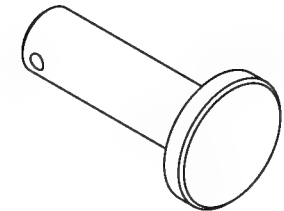
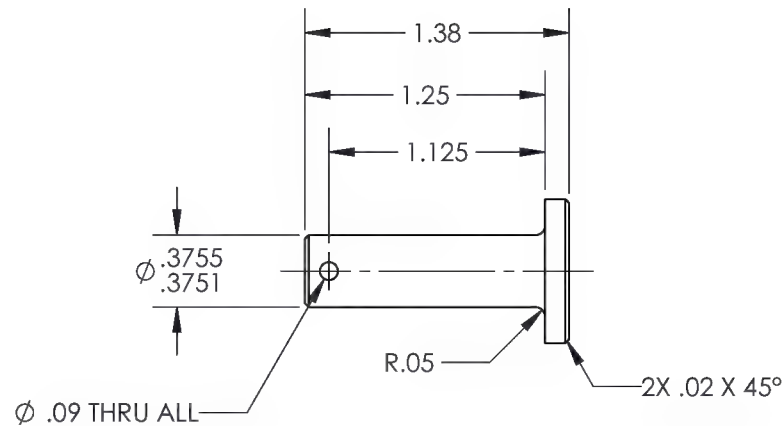
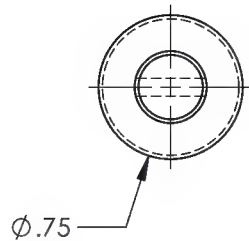
| | |
|--|-------------------------|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-23 | REV 3 |
| MAT'L 4140/4142 | DRAWN BY: GILBERT |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>P. Weil</i> |
| .XXX ± .005 FRACTIONS ± 1/8 | HEAT TREAT RC 35-39 |
| .XX ± .01 ANGLES ± 5° | FINISH SEE NOTE 1 |
| .X ± .1 | SPEC |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | USED ON MODEL |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| SCALE 1:1 | DATE 6/16/2014 |
| SHEET 12 OF 50 | |

(-23)

LINK

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| REVISIONS | | | | | |
|-----------|---------|---|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 2 | 15-0043 | -27 CH'D DIM WAS .02 X 45° IS 2X .02 X 45°. | 2/11/2015 | PMW | JAG |
| 3 | 15-0326 | -27 CH'D MATERIAL CALLOUT WAS 4140/4142 Q&T IS 4140 Q&T/4142 Q&T. | 10/8/2015 | RJC | JAG |



NOTE:

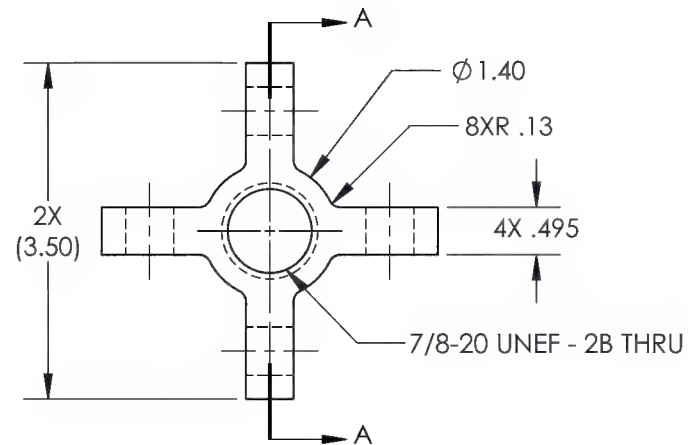
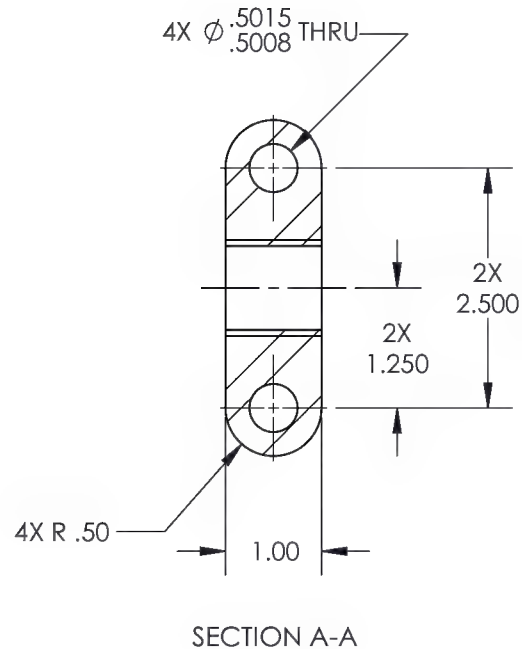
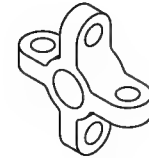
1. NICKEL PLATE .0004 - .0006, BAKE AFTER PLATING.

(-27)
LINK PIN

| | |
|--|------------------------------|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-27 | REV 3 |
| MAT'L 4140 Q&T/4142 Q&T | DRAWN BY: GILBERT |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>P. Weil</i> |
| .XXX ± .005 FRACTIONS ± 1/8 | HEAT TREAT RC 35-39 |
| .XX ± .01 ANGLES ± 5° | FINISH SEE NOTE 1 |
| .X ± .1 | SPEC |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | USED ON MODEL |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| SCALE 1:1 | DATE 8/5/2014 SHEET 13 OF 50 |

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| REVISIONS | | | | | |
|-----------|---------|---|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 2 | 15-0043 | -29 CH'D DIMS WAS LIMITS Ø.4385-.4389 THRU IS 4X LIMITS Ø.5008-.5015 THRU, WAS 2X 3.50 IS (2X 3.50), WAS 7/8-14 UNF IS 7/8-20 UNEF. | 2/11/2015 | PMW | JAG |



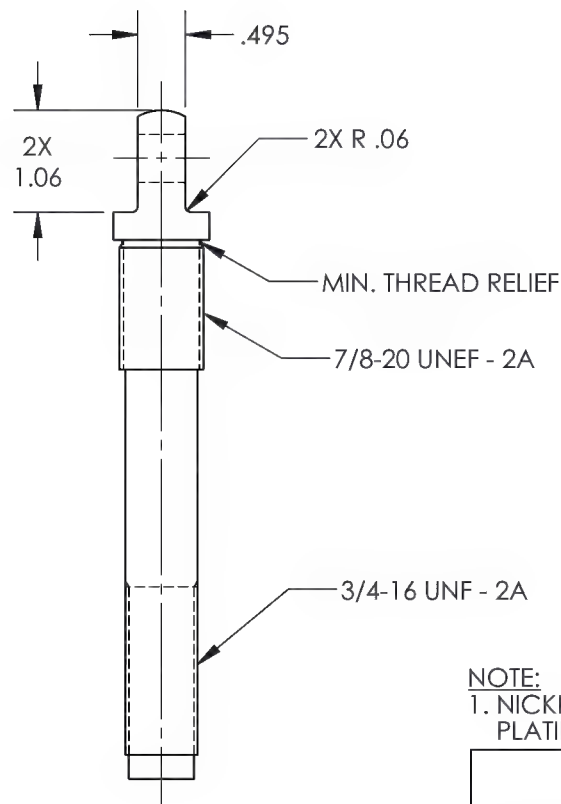
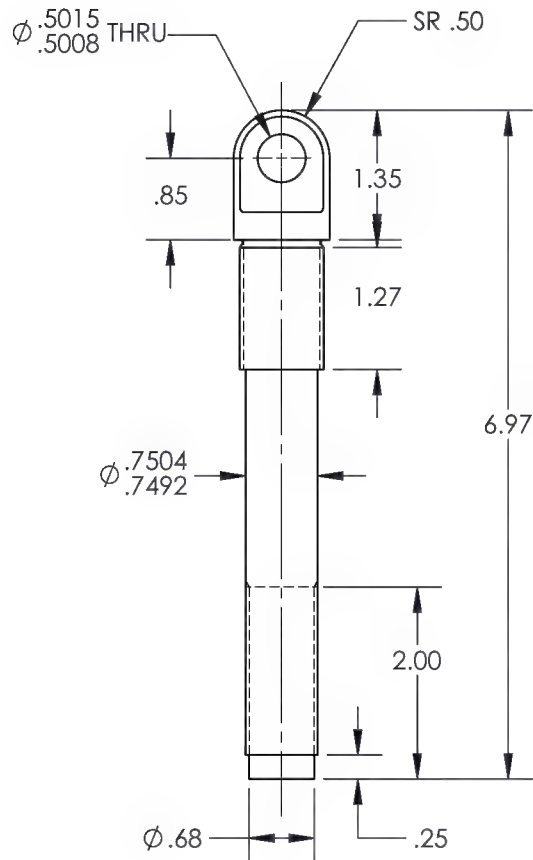
NOTE:
1. NICKEL PLATE .0004 - .0006, BAKE AFTER PLATING.

(-29)
CROSS

| | |
|--|-------------------------|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-29 | REV 3 |
| MAT'L 4140/4142 | DRAWN BY: GILBERT |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>P. Weil</i> |
| .XXX ± .005 FRACTIONS ± 1/8 | HEAT TREAT RC 35-39 |
| .XX ± .01 ANGLES ± 5° | FINISH SEE NOTE 1 |
| .X ± .1 | SPEC |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | USED ON MODEL |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| SCALE 1:2 | DATE 8/6/2014 |
| SHEET 14 OF 50 | |

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| REVISIONS | | | | | |
|-----------|---------|--|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 2 | 15-0043 | -31 REMOVED HEAT TREAT. CH'D DIMS WAS LIMITS Ø.4385-.4389 THRU IS LIMITS Ø.5008-.5015 THRU, WAS .500 IS .495, WAS 7/8-14 UNF IS 7/8-20 UNEF, | 2/11/2015 | PMW | JAG |
| 3 | 15-0326 | -31 ADDED MIN. THREAD RELIEF CALLOUT. | 9/28/2015 | RJC | JAG |



NOTE:
1. NICKEL PLATE .0004 - .0006, BAKE AFTER PLATING.

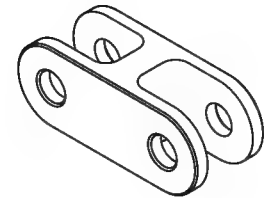
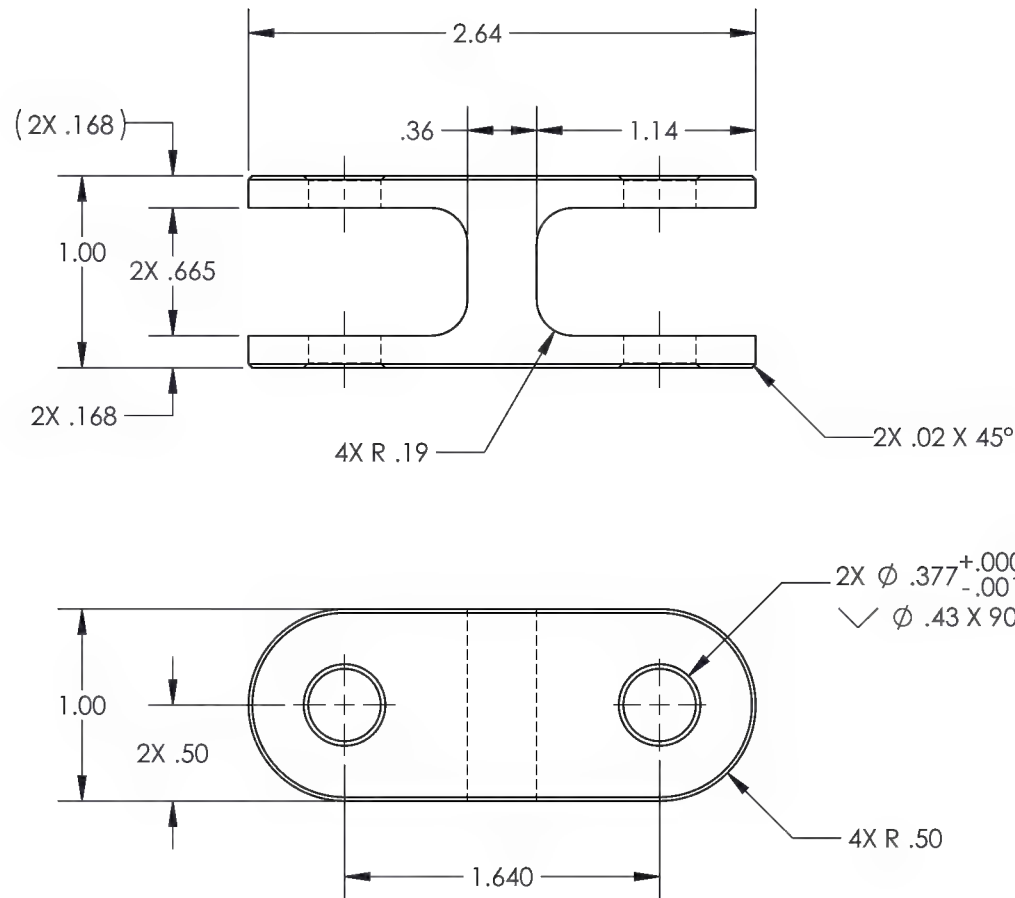
(-31)

PUSH ROD

| | |
|--|------------------------|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-31 | REV 3 |
| MAT'L 4140 Q&T/4142 Q&T | DRAWN BY: GILBERT |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>D Weil</i> |
| .XXX ± .005 FRACTIONS ± 1/8 | HEAT TREAT |
| .XX ± .01 ANGLES ± 5° | FINISH SEE NOTE 1 |
| .X ± .1 | SPEC |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | USED ON MODEL |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| SCALE 1:2 | DATE 8/5/2014 |
| SHEET 15 OF 50 | |

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| REVISIONS | | | | | |
|-----------|---------|--|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 2 | 15-0043 | -33 CH'D DIMS WAS 2X .665 IS 2X .685, WAS 2X .168 IS 2X .158, WAS (.168) IS (2X .158). ADDED DIM 2X .02 X 45°. | 2/11/2015 | PMW | JAG |



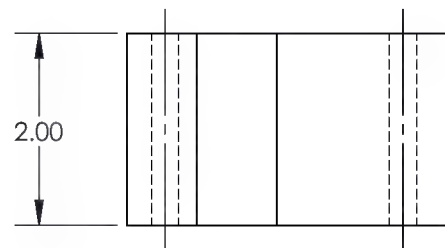
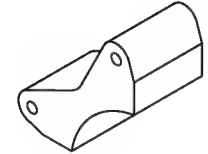
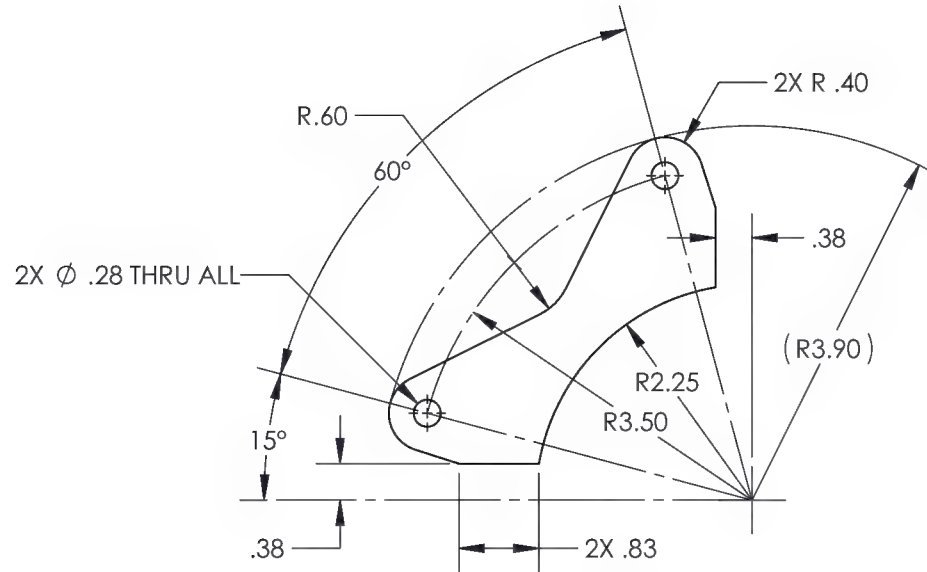
NOTE:
1. NICKEL PLATE .0004 - .0006, BAKE AFTER PLATING.

(-33)
PUSH ROD LINK

| | |
|--|-------------------------|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-33 | REV 3 |
| MAT'L 4140/4142 | DRAWN BY: GILBERT |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>P. Weil</i> |
| .XXX ± .005 FRACTIONS ± 1/8 | HEAT TREAT RC 35-39 |
| .XX ± .01 ANGLES ± 5° | FINISH SEE NOTE 1 |
| .X ± .1 | SPEC |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | USED ON MODEL |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| SCALE 1:1 | DATE 8/5/2014 |
| SHEET 16 OF 50 | |

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|-----------|---------|---------------------------------|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 2 | 15-0043 | -35 ADDED DIMS 2X .83, (R.390). | 2/11/2015 | PMW | JAG |



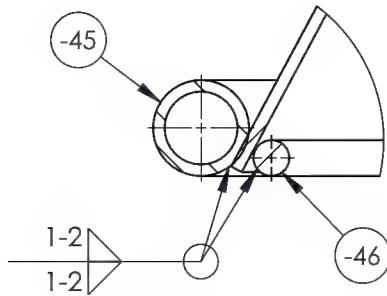
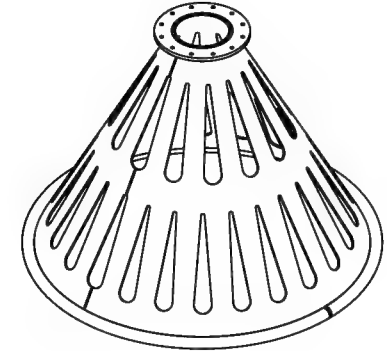
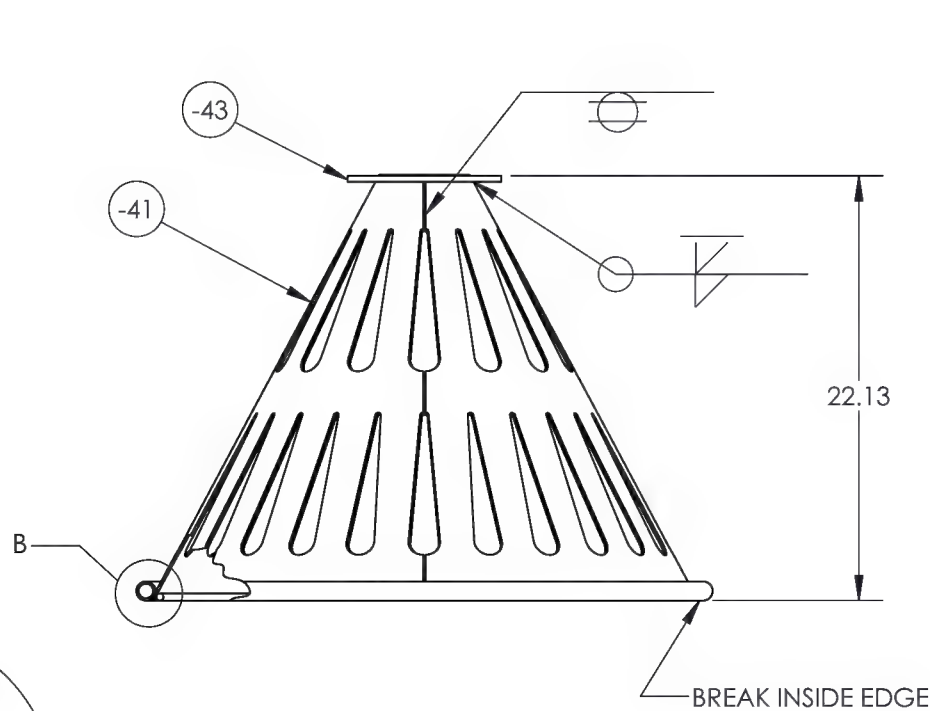
(-35)

ANCHOR GUARD

| | |
|--|------------------------------------|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-35 | REV 3 |
| MAT'L 6061 | DRAWN BY: GILBERT |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>D Weil</i> |
| .XXX ± .005 FRACTIONS ± 1/8 | HEAT TREAT |
| .XX ± .01 ANGLES ± 5° | FINISH CLEAR ANODIZE |
| .X ± .1 | SPEC MIL-A-8625F, TYPE II, CLASS I |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | USED ON MODEL |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| SCALE 1:2 | DATE 8/5/2014 SHEET 17 OF 50 |

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| REVISIONS | | | | | |
|-----------|---------|--|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 1 | 14-0212 | -39 INCREASED Ø BY 6" AND HEIGHT BY 5-5/8, CHG. MATERAIL TO SS FROM STEEL. ADDED INSIDE CONE RING -46. | 1/26/2015 | DPD | JAG |



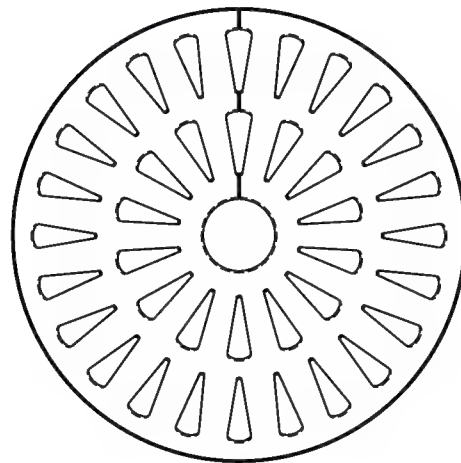
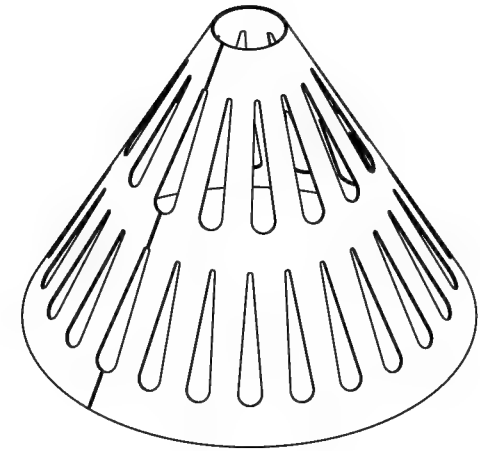
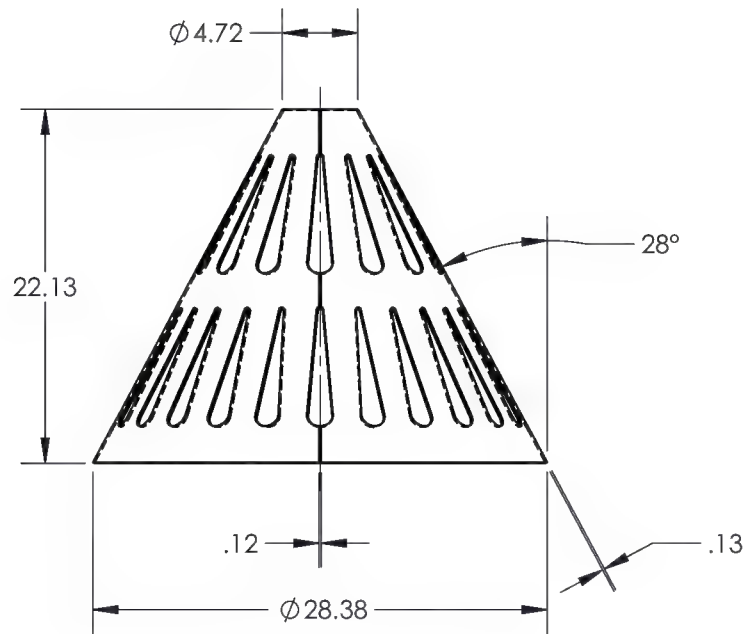
DETAIL B
SCALE 1 : 2

-39
CONE WELDMENT

| | |
|---|---|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-39 | REV 3 |
| MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 5° .X ± .1 | DRAWN BY: GILBERT APPROVED <i>D Weil</i> HEAT TREAT FINISH SPEC |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| SCALE 1:10 | DATE 8/5/2014 |
| SHEET 18 OF 50 | |

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| REVISIONS | | | | | |
|-----------|---------|---|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 1 | 14-0212 | -41 INCREASED Ø BY 6" AND HEIGHT BY 5-5/8, CH'D FROM FULL LENG SLOTS TO 2 ROWS OF SLOTS. CH'D MAT'L WAS STEEL IS S.S. | 1/26/2015 | DPD | JAG |



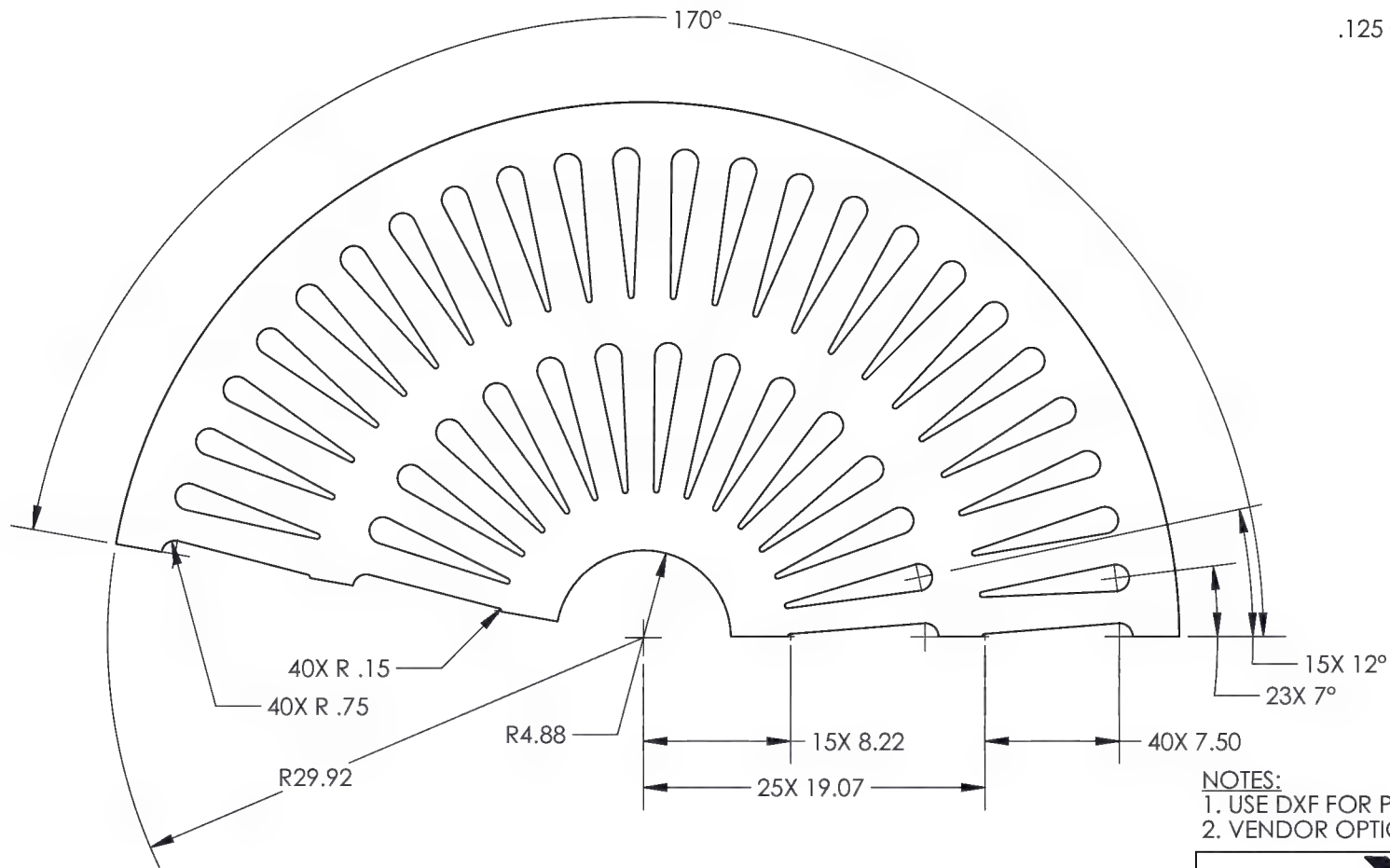
(-41)
CONE

NOTE:
VENDOR OPTION: 2 SEAMS OK.

| | | |
|--|-------------------|------------------------|
| DART AEROSPACE | | |
| TITLE VERTICAL CAPTURE TRANSPORT | | |
| DWG NO. | VCT-5-41 | REV 3 |
| MAT'L 304 | DRAWN BY: GILBERT | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | | APPROVED <i>D Weil</i> |
| .XXX ± .010 | FRACTIONS ± 1/8 | HEAT |
| .XX ± .03 | ANGLES ± 5° | TREAT |
| .X ± .1 | | FINISH |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | | SPEC |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | | USED ON MODEL |
| SCALE 1:12 | DATE 10/25/2013 | SHEET 19 OF 50 |

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| REVISIONS | | | | | |
|-----------|---------|---|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 1 | 14-0212 | -41A INCREASED Ø BY 6" AND HEIGHT BY 5-5/8, CH'D FROM FULL LENG SLOTS TO 2 ROWS OF SLOTS. CH'D MAT'L WAS STEEL IS S.S. | 1/26/2015 | DPD | JAG |



FLAT PATTERN
DIMENSIONS FOR REFERENCE ONLY

- NOTES:
1. USE DXF FOR PROFILE
 2. VENDOR OPTION: 2 SEAMS OK.

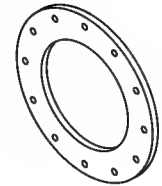
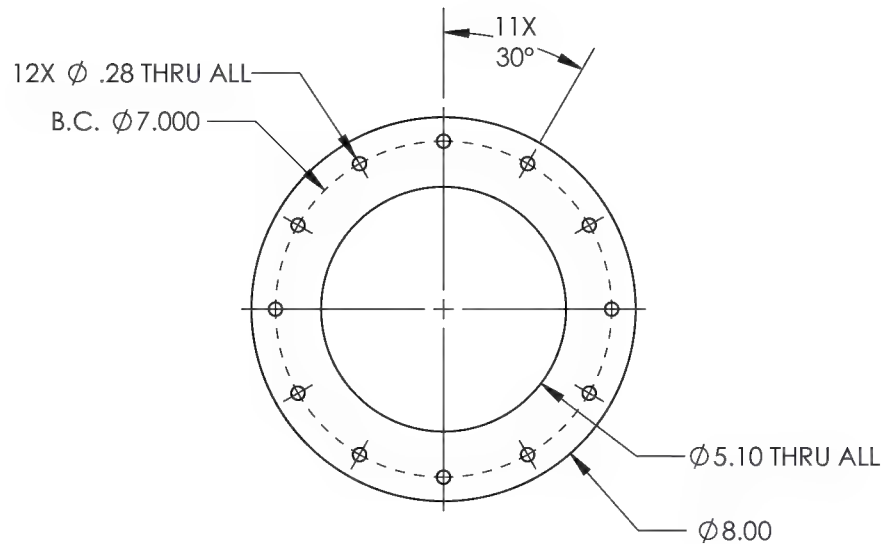
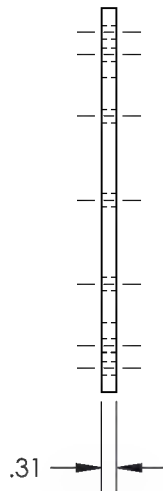
-41A

CONE FLAT PATTERN

| | |
|--|------------------------|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-41A | REV 3 |
| MAT'L 304 | DRAWN BY: GILBERT |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>D Weil</i> |
| .XXX ± .005 FRACTIONS ± 1/8 | HEAT |
| .XX ± .01 ANGLES ± 5° | TREAT |
| .X ± .1 | FINISH |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | SPEC |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | USED ON MODEL |
| SCALE 1:10 | DATE 10/25/2013 |
| SHEET 20 OF 50 | |

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| REVISIONS | | | | | |
|-----------|---------|-----------------------------------|----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 1 | 14-0212 | -43 CH'D MAT'L WAS HR P&O IS 304. | 1/7/2015 | DPD | JAG |



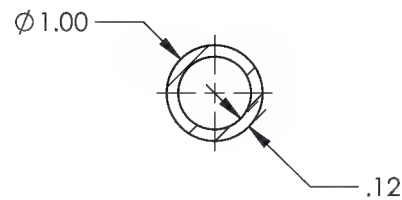
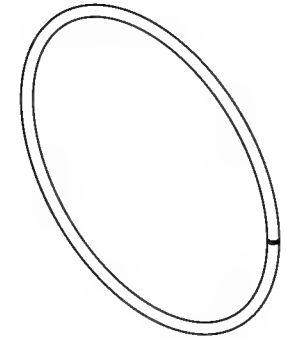
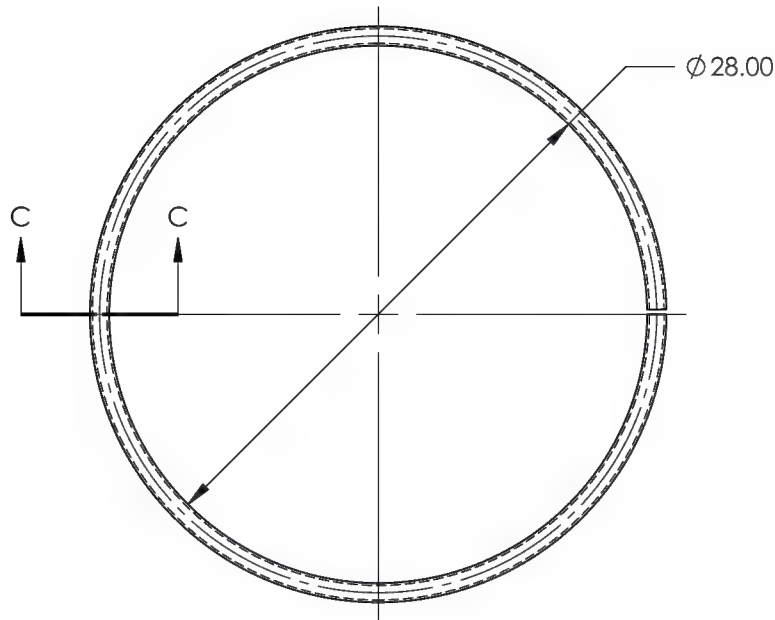
(-43)

CONE FLANGE

| | |
|--|------------------------|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-43 | REV 3 |
| MAT'L 304 | DRAWN BY: GILBERT |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>D Weil</i> |
| .XXX ± .005 | HEAT |
| .XX ± .01 | TREAT |
| .X ± .1 | FINISH |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | SPEC |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | USED ON MODEL |
| SCALE 1:4 | DATE 8/5/2014 |
| SHEET 21 OF 50 | |

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| REVISIONS | | | | | |
|-----------|---------|---|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 1 | 14-0212 | -45 INCREASED Ø BY 6", CHG. MATERIAL TO SS FROM STEEL | 1/27/2015 | DPD | JAG |



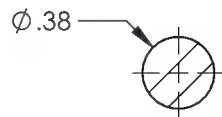
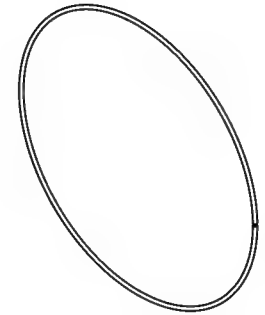
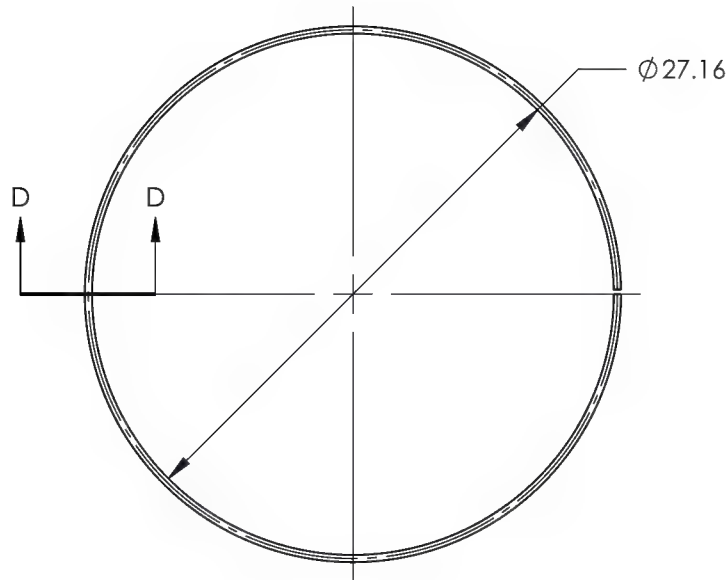
SECTION C-C
SCALE 1 : 2

(-45)
CONE RING

| | |
|--|------------------------|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-45 | REV 3 |
| MAT'L 304 | DRAWN BY: GILBERT |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>D Weil</i> |
| .XXX ± .010 FRACTIONS ± 1/8 | HEAT |
| .XX ± .03 ANGLES ± 5° | TREAT |
| .X ± .1 | FINISH |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | SPEC |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | USED ON MODEL |
| SCALE 1:10 | DATE 8/5/2014 |
| SHEET 22 OF 50 | |

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| REVISIONS | | | | | |
|-----------|---------|-----------------|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 1 | 14-0212 | -46 ADDED PART. | 1/27/2015 | DPD | JAG |



SECTION D-D
SCALE 1 : 1

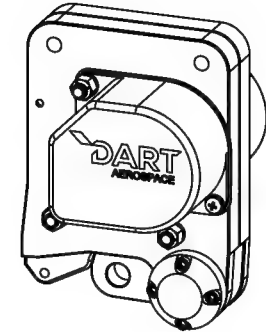
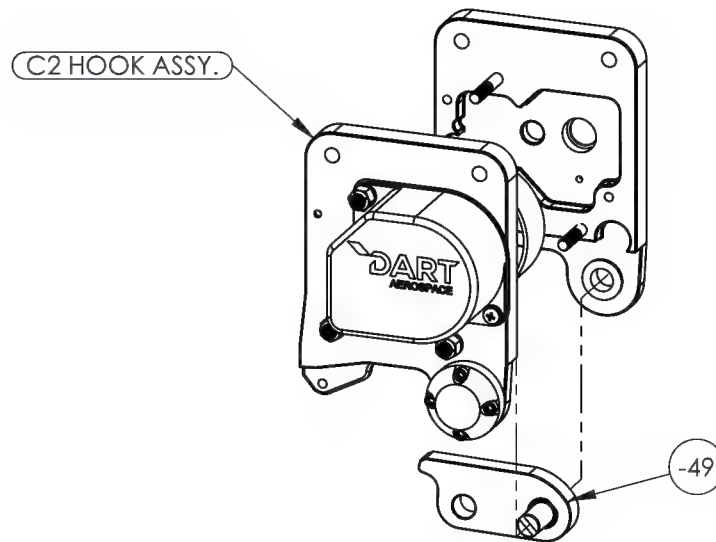
(-46)

INSIDE CONE RING

| | |
|--|----------------------------|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-46 | REV 3 |
| MAT'L 304 | DRAWN BY: DUERFELDT |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>J Gilbert</i> |
| .XXX ± .010 FRACTIONS ± 1/8 | HEAT |
| .XX ± .03 ANGLES ± 5° | TREAT |
| .X ± .1 | FINISH |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | SPEC |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | USED ON MODEL |
| SCALE 1:10 | DATE 1/27/2015 |
| SHEET 23 OF 50 | |

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| REVISIONS | | | | | |
|-----------|---------|--|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 2 | 15-0043 | -47 DELETED -53, AND TAPPED HOLE, AND VIEW SHOWING TAPPED HOLE | 2/11/2015 | PMW | JAG |



NOTE:
USE SAME PARTS BOM AS C2 EXCEPT REPLACE C2-4-4A WITH -49 AS SHOWN.
ALSO, DO NOT USE THE FOLLOWING C2 PARTS:

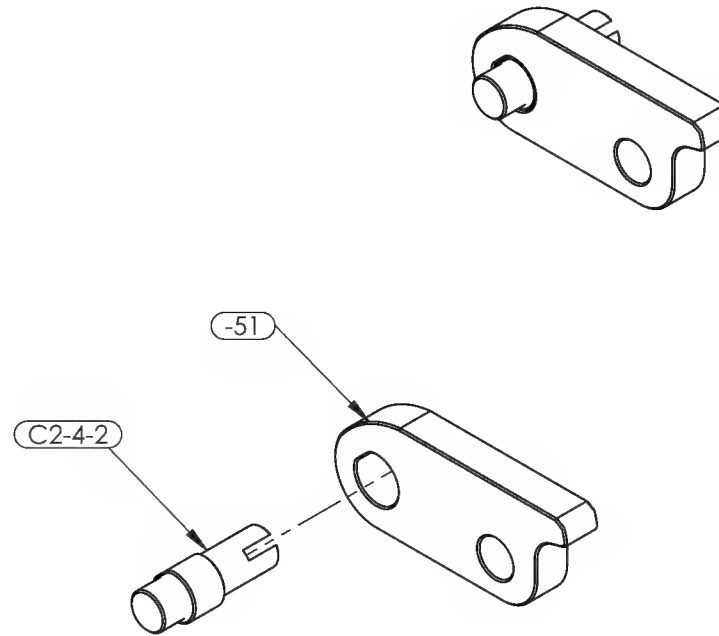
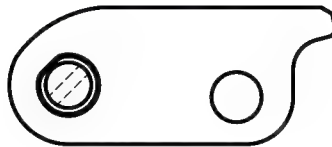
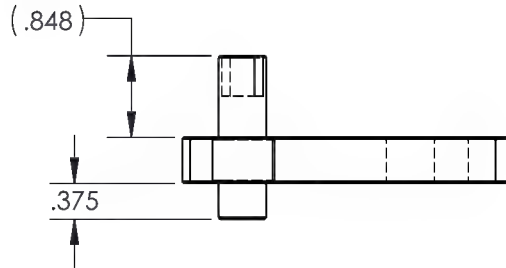
| QTY | PN | DESC. |
|-----|-----------|-------------------|
| 1 | C2-9-2 | CLOCK SPRING |
| 1 | C2-13-4 | KEEPER |
| 1 | C2-13-5 | KEEPER SPRING |
| 1 | AN3-14A | KEEPER SHAFT BOLT |
| 2 | AN960-10L | WASHER FOR KEEPER |
| 1 | MS21083N3 | NUT FOR KEEPER |

-47
C2-VCT-5 HOOK ASSY

| | |
|--|---------------------------|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-47 | REV 3 |
| MAT'L | DRAWN BY: CANAM |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>J Gilbert</i> |
| .XXX ± .005 | HEAT |
| .XX ± .01 | TREAT |
| .X ± .1 | FINISH |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | SPEC |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | USED ON MODEL |
| SCALE 1:4 | DATE |
| SHEET 24 OF 50 | |

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| REVISIONS | | | | |
|-----------|-----|-------------|------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL |
| | | | | APPROVED |



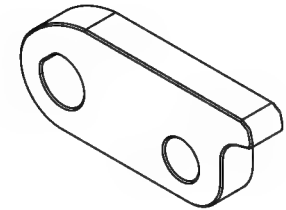
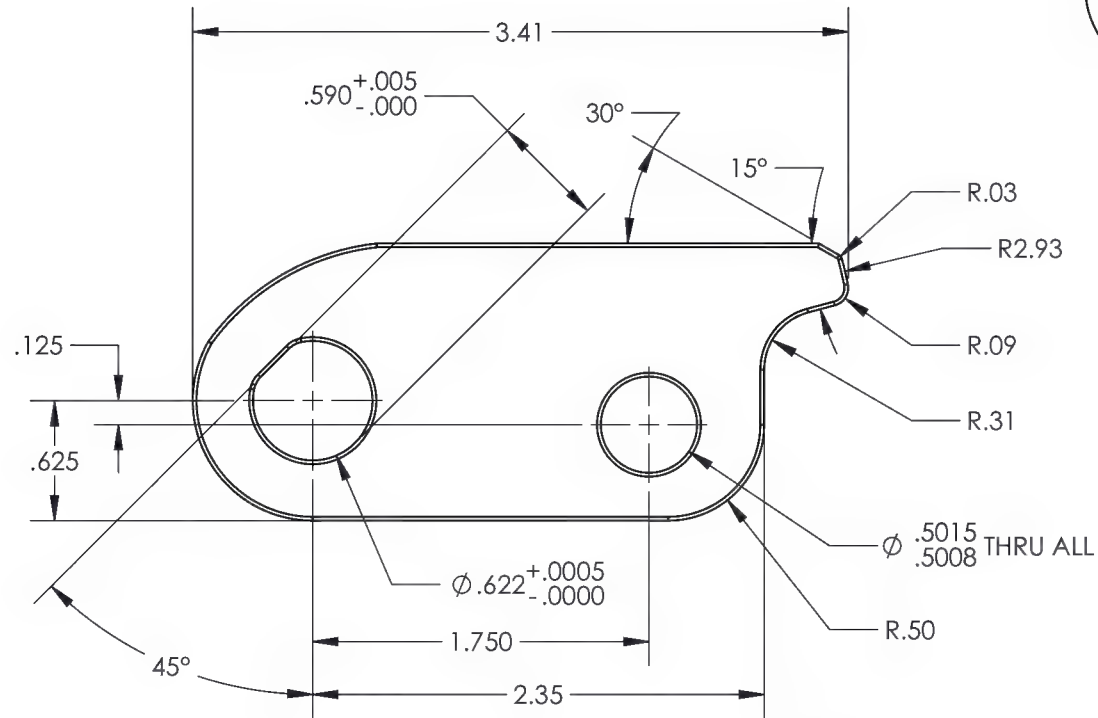
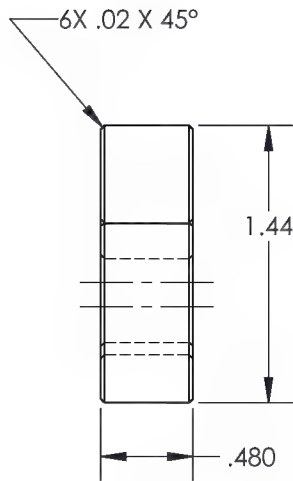
NOTE:
1. NICKEL PLATE .0009 - .0011, BAKE AFTER PLATING.

(-49)
LOAD BEAM ASSEMBLY

| | |
|--|------------------------|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-49 | REV 3 |
| MAT'L | DRAWN BY: GILBERT |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>D Weil</i> |
| .XXX ± .005 | HEAT TREAT |
| .XX ± .01 | FINISH SEE NOTE 1 |
| .X ± .1 | ANGLES ± 5° |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | SPEC |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | USED ON MODEL |
| SCALE 1:2 | DATE 7/7/2014 |
| SHEET 25 OF 50 | |

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| REVISIONS | | | | | |
|-----------|---------|---|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 2 | 15-0043 | -51 CH'D DIM WAS LIMITS Ø.4385-.4389 THRU ALL IS LIMITS Ø.5008-.5015 THRU ALL. ADDED DIMS .625, 45°. ADDED USE DXF PROFILE FOR CONTOURS NOTE. | 2/11/2015 | PMW | JAG |



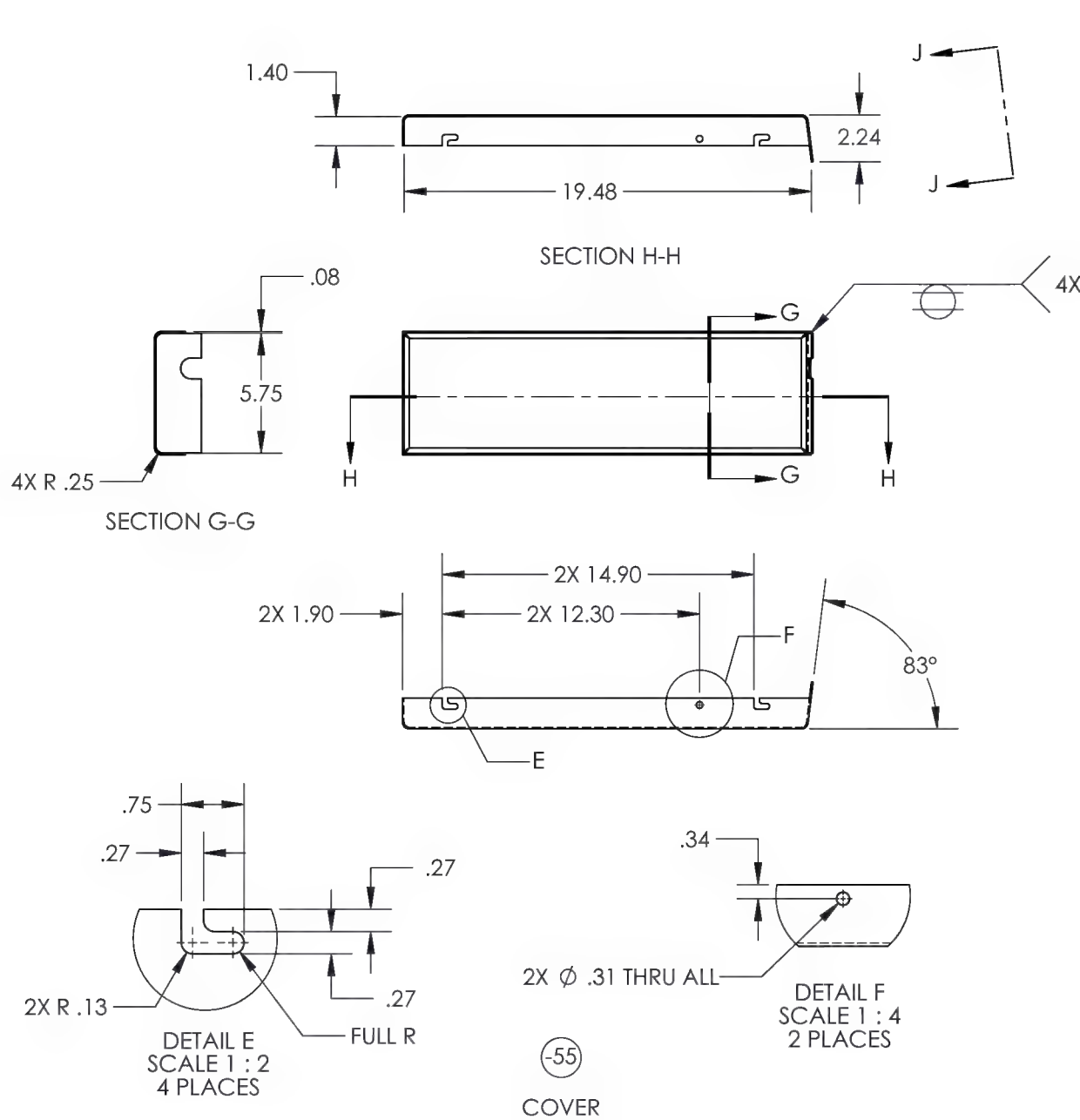
- NOTES:
1. NICKEL PLATE AFTER ASSEMBLY.
 2. USE DXF PROFILE FOR CONTOURS.

(-51)
LOAD BEAM

| | |
|--|------------------------------|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-51 | REV 3 |
| MAT'L 4140/4142 | DRAWN BY: GILBERT |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>P. Weil</i> |
| .XXX ± .005 FRACTIONS ± 1/8 | HEAT TREAT RC 53-56 |
| .XX ± .01 ANGLES ± 5° | FINISH SEE NOTE 1 |
| .X ± .1 | SPEC |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | USED ON MODEL |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| SCALE 1:1 | DATE 7/7/2014 SHEET 26 OF 50 |

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| REVISIONS | | | | | |
|-----------|---------|--|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 2 | 15-0043 | -55 REDESIGNED. | 2/11/2015 | PMW | JAG |
| 3 | 15-0326 | -55 ADDED MISSING DIM 1.68, CH'D MATERIAL CALLOUT WAS 1018 IS 1018/1020. | 10/8/2015 | RJC | JAG |

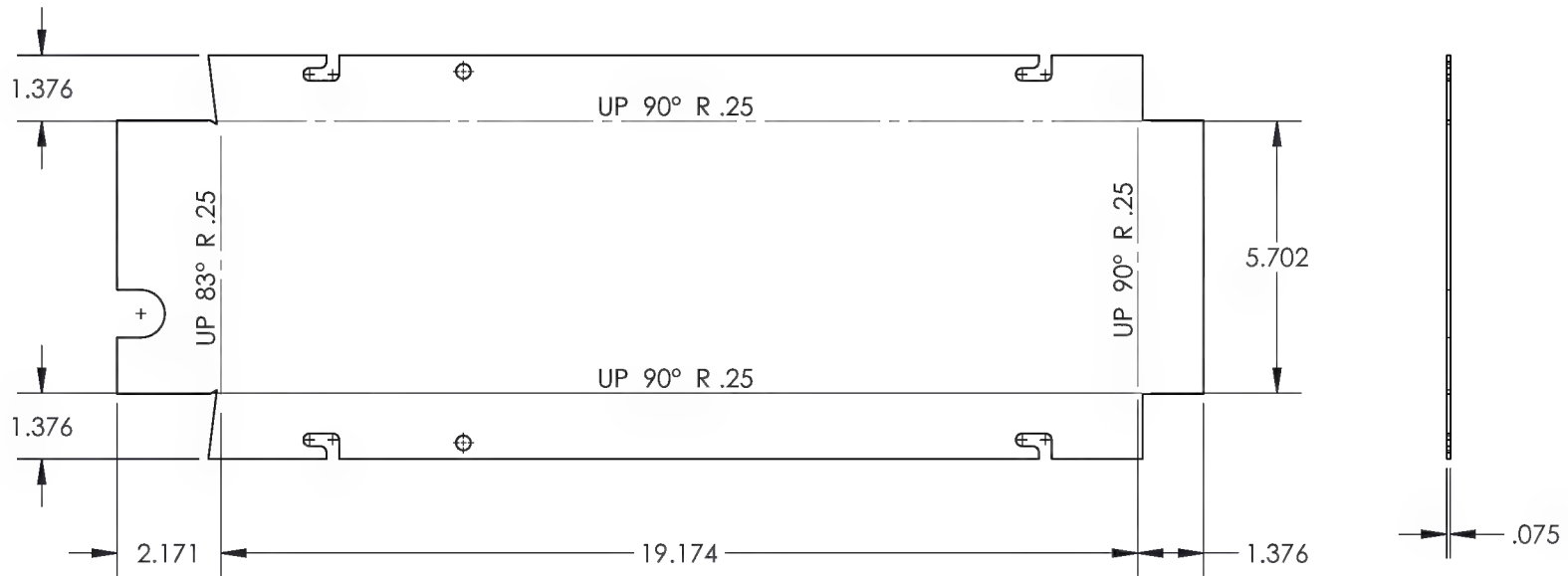


NOTE:
WELD AND GRIND ALL SEAMS AND CORNERS.

| DART AEROSPACE | | | |
|--|---------------|-------------------------------|----------|
| TITLE VERTICAL CAPTURE TRANSPORT | | | |
| DWG NO. VCT-5-55 | | | REV 3 |
| MAT'L 1018/1020 | | DRAWN BY: GILBERT | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | | APPROVED <i>D Weil</i> | |
| .XXX ± .010 | | HEAT TREAT | |
| .XX ± .03 | | FINISH POWDER COAT LIME GREEN | |
| .X ± .1 | | SPEC | |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | | USED ON MODEL | |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | | | |
| SCALE 1:8 | DATE 8/5/2014 | SHEET 27 OF 50 | |

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| REVISIONS | | | |
|-----------|-----|-------------|----------|
| REV | ECR | DESCRIPTION | DATE |
| | | | INITIAL |
| | | | APPROVED |



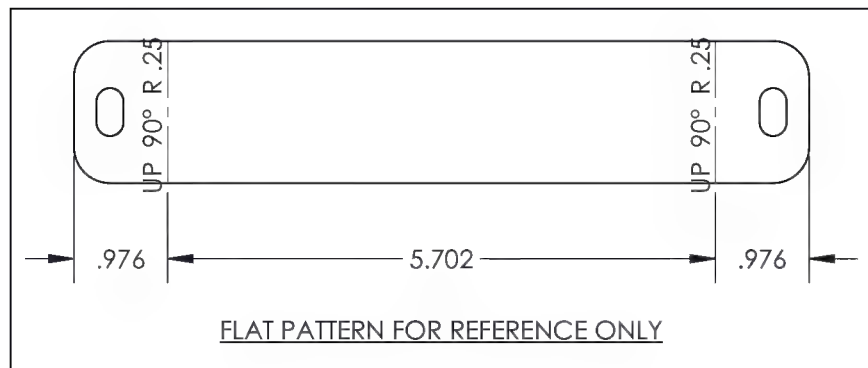
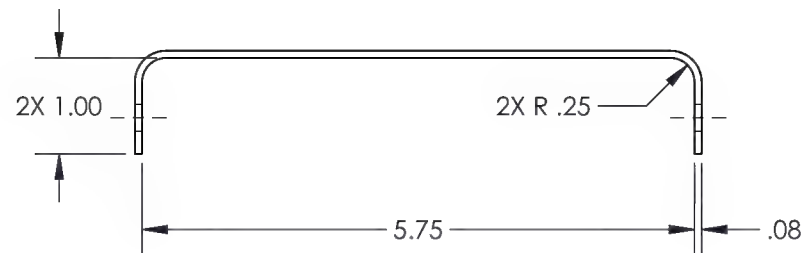
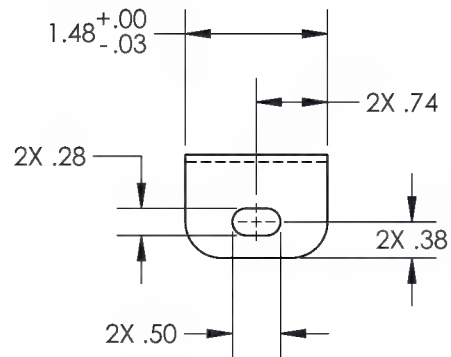
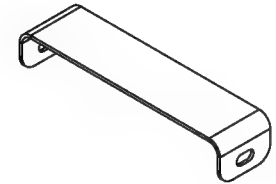
FLAT PATTERN
DIMENSIONS FOR REFERENCE ONLY

-55A
COVER FLAT PATTERN

| | |
|--|-------------------------------|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-55A | REV 3 |
| MAT'L 1018/1020 | DRAWN BY: GILBERT |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>D Weil</i> |
| .XXX ± .010 FRACTIONS ± 1/8 | HEAT TREAT |
| .XX ± .03 ANGLES ± 5° | FINISH POWDER COAT LIME GREEN |
| .X ± .1 | SPEC |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | USED ON MODEL |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| SCALE 1:4 | DATE 8/5/2014 |
| SHEET 28 OF 50 | |

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| REVISIONS | | | | | |
|-----------|---------|---|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 3 | 15-0326 | -57 CH'D DIM WAS 1.50 IS 1.48 +.00 -.03, CH'D MATERIAL CALLOUT WAS 1018 IS 1018/1020. | 9/28/2015 | RJC | JAG |



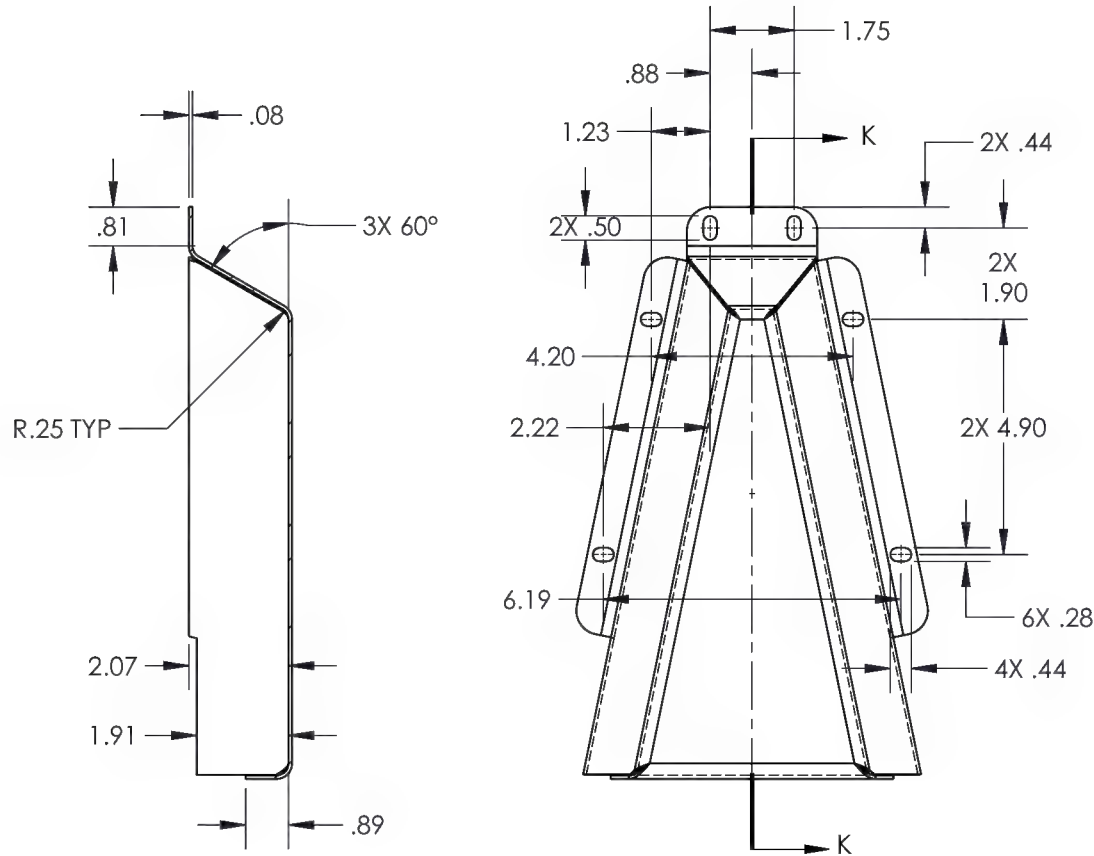
-57

CENTER COVER

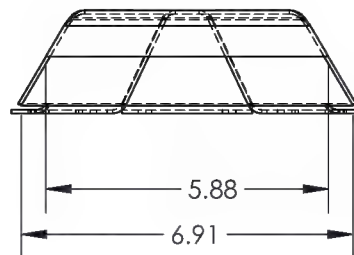
| | |
|--|-------------------------------|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-57 | REV 3 |
| MAT'L 1018/1020 | DRAWN BY: GILBERT |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>D Weil</i> |
| .XXX ± .010 FRACTIONS ± 1/8 | HEAT TREAT |
| .XX ± .03 ANGLES ± 5° | FINISH POWDER COAT LIME GREEN |
| .X ± .1 | SPEC |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | USED ON MODEL |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| SCALE 1:2 | DATE 8/7/2014 SHEET 29 OF 50 |

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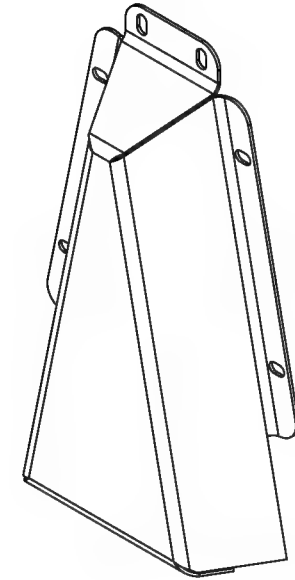
| REVISIONS | | | | | |
|-----------|---------|---|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 2 | 15-0043 | -59 CH'D DIMS WAS 1.90 IS 2X 1.90, WAS 60° IS 3X 60°. ADDED DIMS 1.23, 2.22, 4.20, 6.19, 2X .44, R.25 | 2/11/2015 | PMW | JAG |
| 3 | 15-0326 | -59 CH'D MATERIAL CALLOUT WAS 1018 IS 1018/1020. | 10/8/2015 | RJC | JAG |



SECTION K-K



-59
SIDE COVER

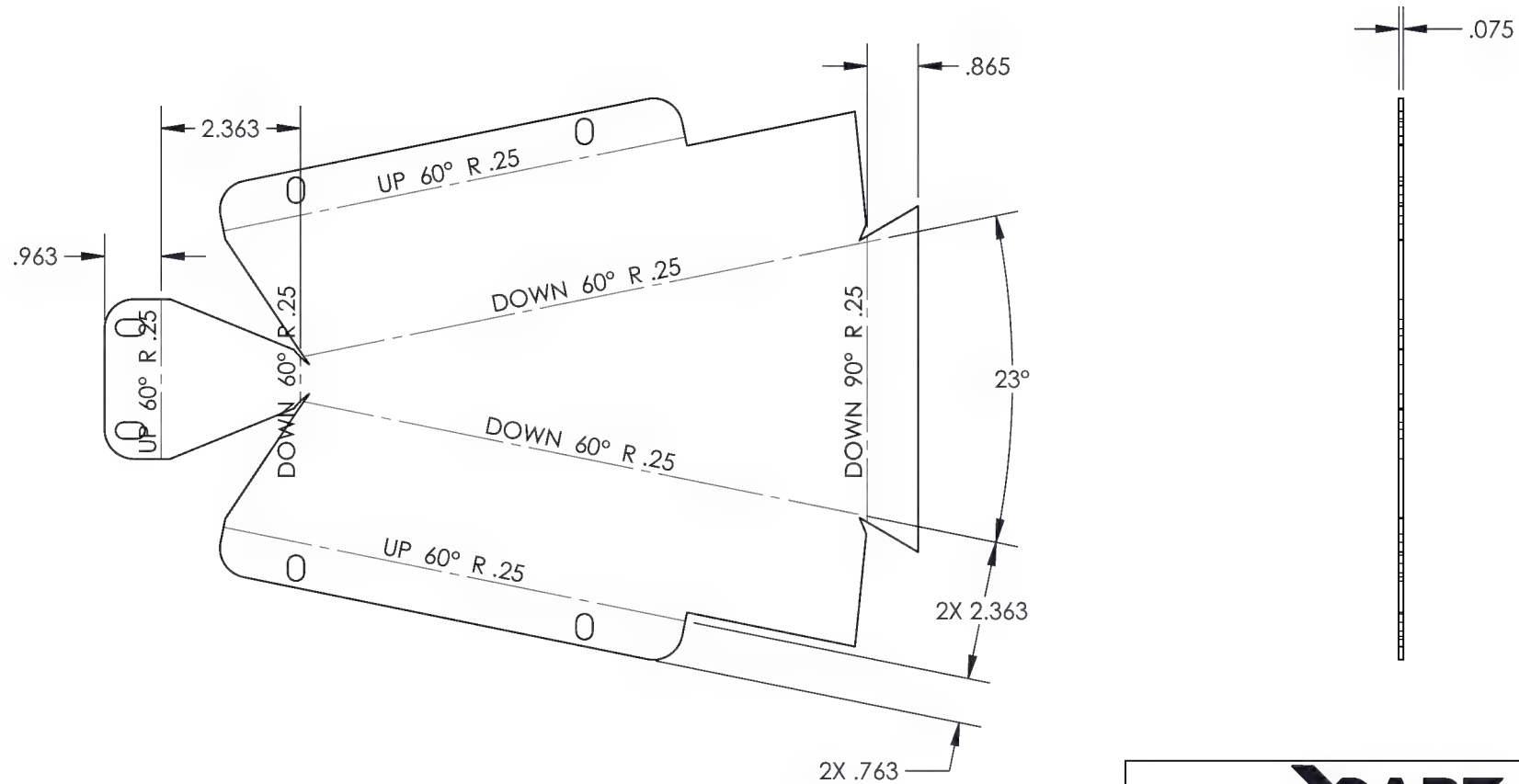


NOTE:
WELD AND GRIND ALL SEAMS AND CORNERS.

| | | |
|--|-------------------------------|-----------------|
| DART AEROSPACE | | |
| TITLE VERTICAL CAPTURE TRANSPORT | | |
| DWG NO. | VCT-5-59 | REV 3 |
| MAT'L 1018/1020 | DRAWN BY: GILBERT | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>D Weil</i> | |
| .XXX ± .010 | HEAT TREAT | |
| .XX ± .03 | FINISH POWDER COAT LIME GREEN | |
| .X ± .1 | SPEC | |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | | |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | | |
| SCALE 1:4 | DATE 8/5/2014 | SHEET 30 OF 50 |

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| REVISIONS | | | |
|-----------|-----|-------------|----------|
| REV | ECR | DESCRIPTION | DATE |
| | | | INITIAL |
| | | | APPROVED |



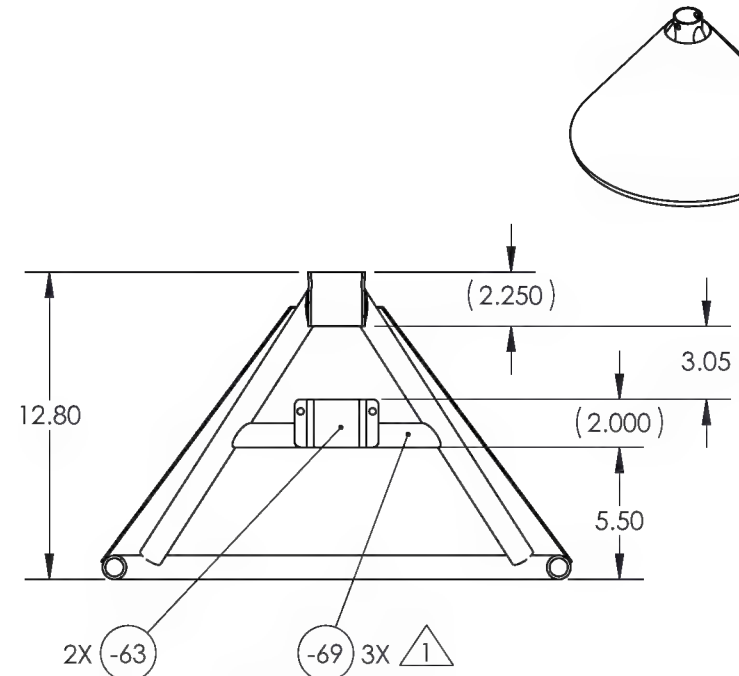
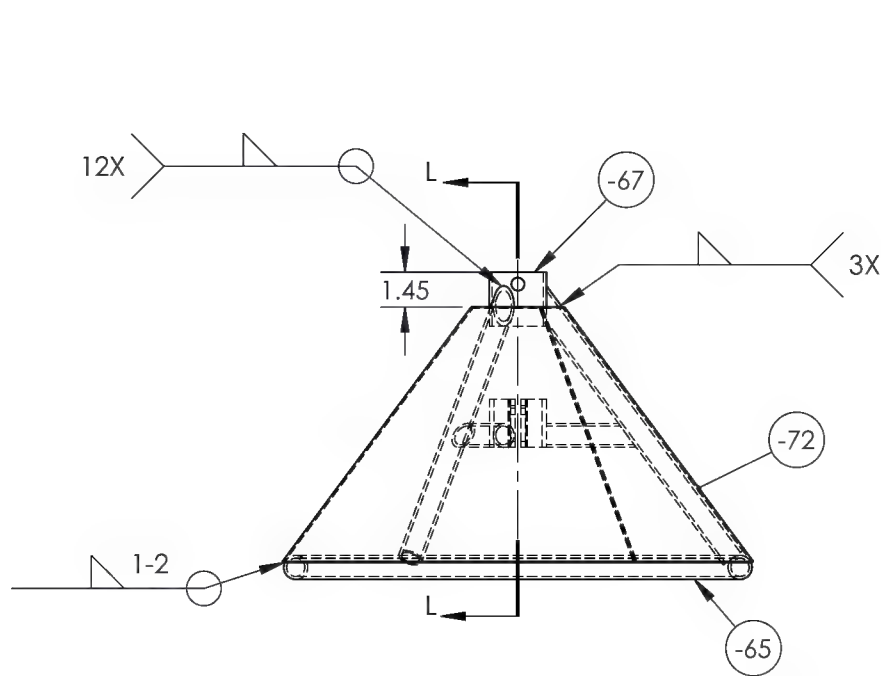
FLAT PATTERN
DIMENSIONS FOR REFERENCE ONLY

(-59A)
SIDE COVER

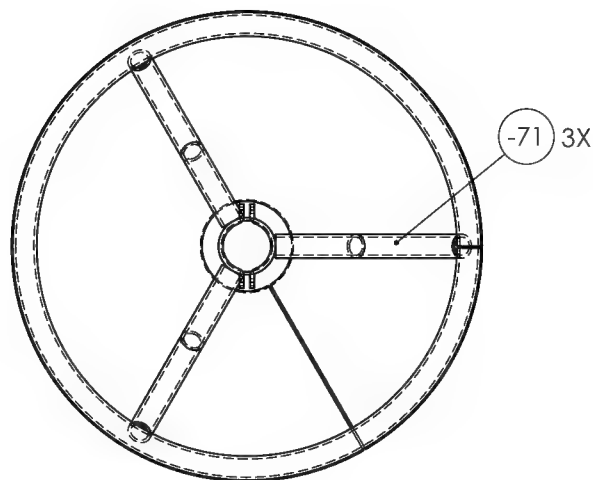
| | |
|--|-------------------------------|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-59A | REV 3 |
| MAT'L 1018/1020 | DRAWN BY: GILBERT |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>D Weil</i> |
| .XXX ± .010 FRACTIONS ± 1/8 | HEAT TREAT |
| .XX ± .03 ANGLES ± 5° | FINISH POWDER COAT LIME GREEN |
| .X ± .1 | SPEC |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | USED ON MODEL |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| SCALE 1:3 | DATE 8/5/2014 |
| SHEET 31 OF 50 | |

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| REVISIONS | | | | | |
|-----------|---------|---|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 2 | 15-0043 | -61 REDESIGNED. | 2/11/2015 | PMW | JAG |
| 3 | 15-0326 | -61 CH'D FINISH WAS SAFETY ORANGE IS SAFETY YELLOW, ADDED NOTE 1. | 9/28/2015 | RJC | JAG |



SECTION L-L



-61
TRIPOD ASSY

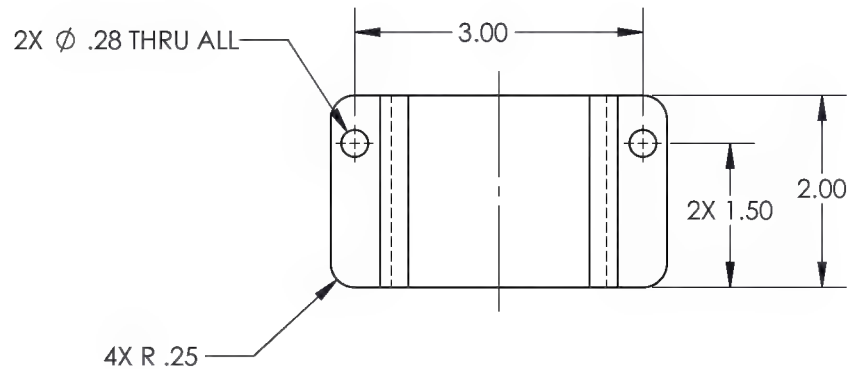
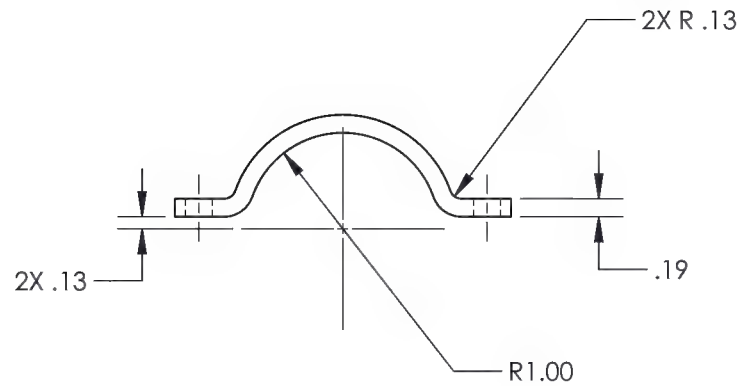
NOTE:

1 COPE -69 AS REQUIRED.

| | |
|--|--|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-61 | REV 3 |
| MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 5° .X ± .1 | DRAWN BY: GILBERT APPROVED: <i>D Weil</i> HEAT TREAT FINISH: POWDER COAT SPEC: SAFETY YELLOW USED ON MODEL |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| SCALE 1:8 | DATE 8/5/2014 |
| SHEET 32 OF 50 | |

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| REVISIONS | | | | | |
|-----------|---------|--|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 3 | 15-0326 | -63 CH'D MATERIAL CALLOUT WAS 1018 IS 1018/1020. | 10/8/2015 | RJC | JAG |



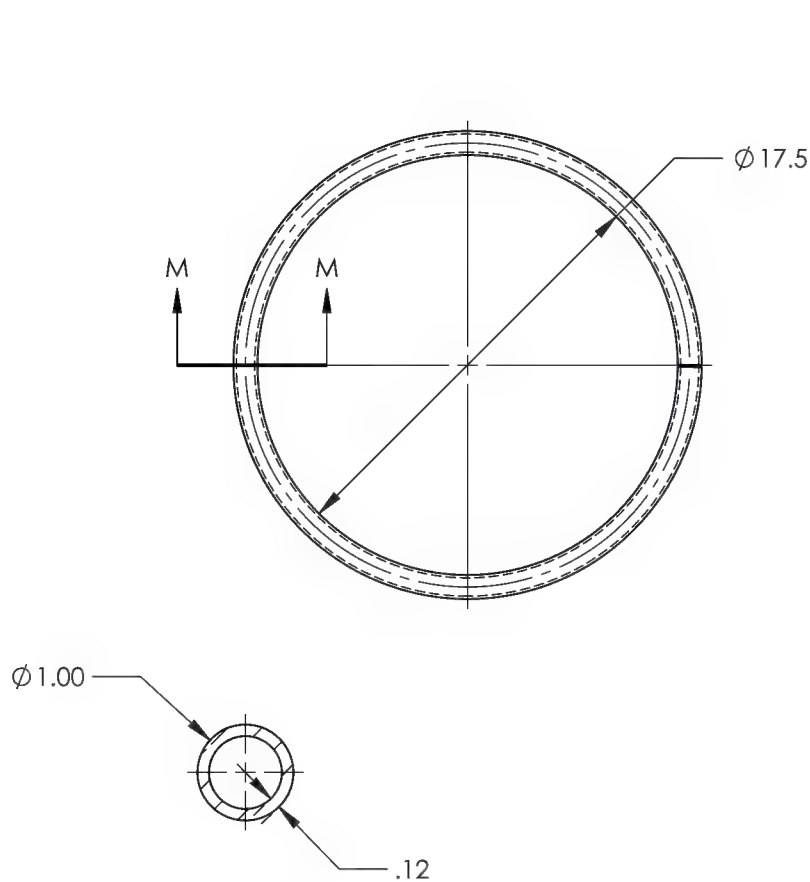
(-63)

HALF RING

| | |
|--|------------------------------|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-63 | REV 3 |
| MAT'L 1018/1020 | DRAWN BY: GILBERT |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>D Weil</i> |
| .XXX ± .010 FRACTIONS ± 1/8 | HEAT TREAT |
| .XX ± .03 ANGLES ± 5° | FINISH SEE -61 WELDMENT |
| .X ± .1 | SPEC |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | USED ON MODEL |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| SCALE 1:2 | DATE 8/5/2014 SHEET 33 OF 50 |

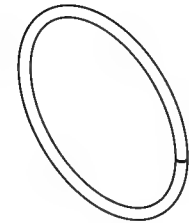
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| REVISIONS | | | | | |
|-----------|---------|-----------------|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 2 | 15-0043 | -65 REDESIGNED. | 2/11/2015 | PMW | JAG |



-65

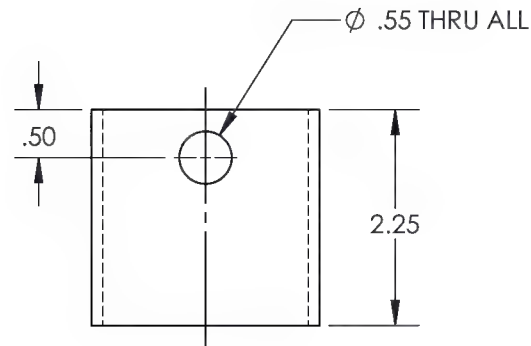
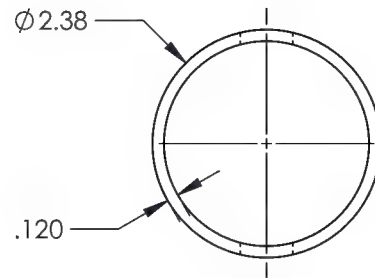
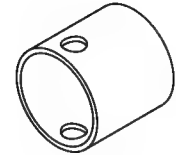
SMALL HOOP



| | |
|--|--|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-65 | REV 3 |
| MAT'L CDS UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 5° .X ± .1 | DRAWN BY: GILBERT APPROVED <i>D Weil</i> HEAT TREAT FINISH SEE -61 WELDMENT SPEC USED ON MODEL |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| SCALE 1:8 | DATE 8/5/2014 |
| SHEET 34 OF 50 | |

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|-----------|---------|----------------------------------|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 2 | 15-0043 | -67 CH'D MAT'L WAS STEEL IS CDS. | 2/11/2015 | PMW | JAG |



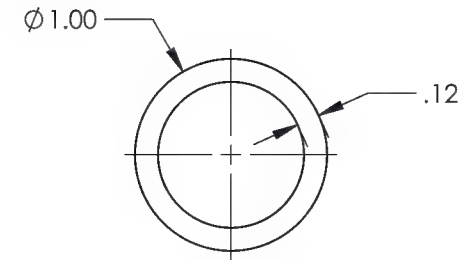
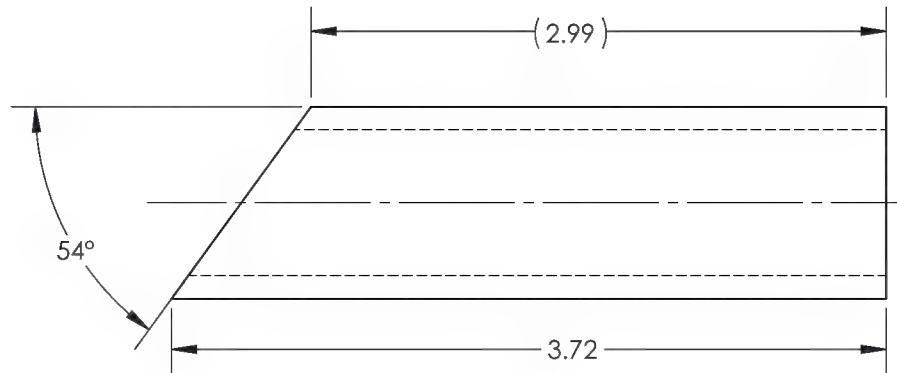
(-67)

TOP RING

| | |
|--|------------------------------|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-67 | REV 3 |
| MAT'L CDS | DRAWN BY: GILBERT |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>D Weil</i> |
| .XXX ± .010 FRACTIONS ± 1/8 | HEAT TREAT |
| .XX ± .03 ANGLES ± 5° | FINISH SEE -61 WELDMENT |
| .X ± .1 | SPEC |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | USED ON MODEL |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| SCALE 1:2 | DATE 8/5/2014 SHEET 35 OF 50 |

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|-----------|---------|-----------------|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 2 | 15-0043 | -69 REDESIGNED. | 2/11/2015 | PMW | JAG |



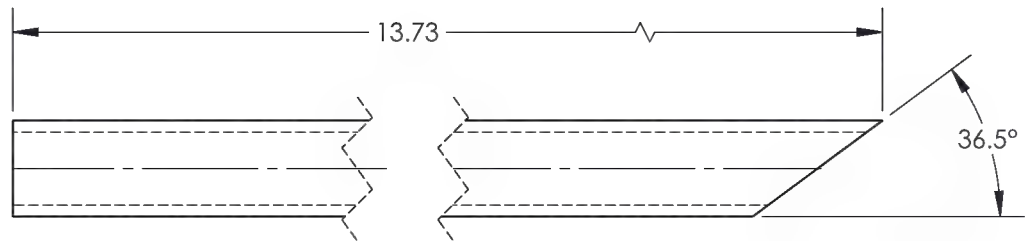
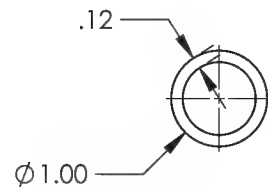
(-69)

SUPPORT TUBE

| | |
|--|------------------------------|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-69 | REV 3 |
| MAT'L CDS | DRAWN BY: GILBERT |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>D Weil</i> |
| .XXX ± .010 FRACTIONS ± 1/8 | HEAT TREAT |
| .XX ± .03 ANGLES ± 5° | FINISH SEE -61 WELDMENT |
| .X ± .1 | SPEC |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | USED ON MODEL |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| SCALE 1:2 | DATE 8/5/2014 SHEET 36 OF 50 |

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|-----------|---------|-----------------|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 2 | 15-0043 | -71 REDESIGNED. | 2/11/2015 | PMW | JAG |

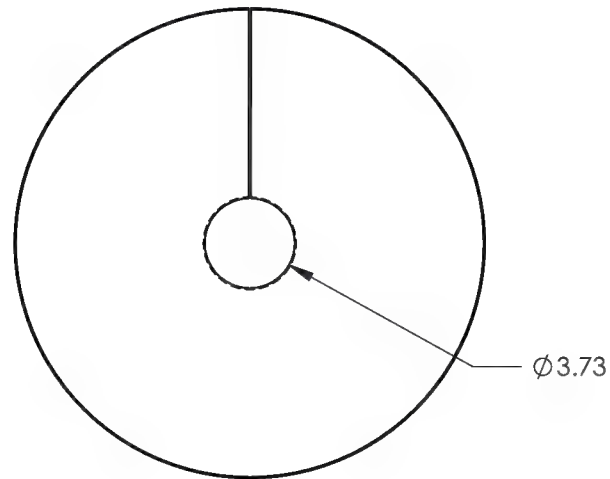
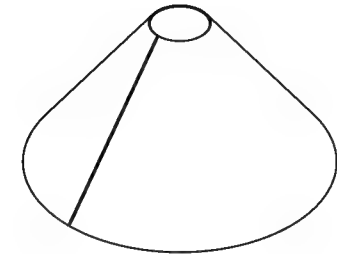
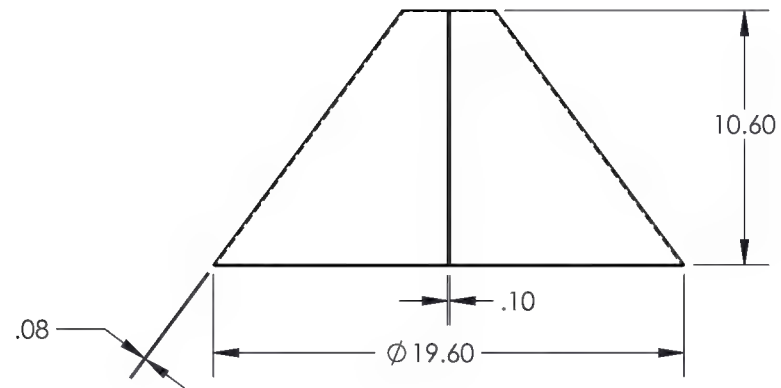


(-71)
UPRIGHT TUBE

| | |
|---|--|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-71 | REV 3 |
| MAT'L CDS UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | DRAWN BY: GILBERT |
| .XXX ± .010 FRACTIONS ± 1/8 | APPROVED <i>D Weil</i> |
| .XX ± .03 ANGLES ± 5° | HEAT TREAT |
| .X ± .1 | FINISH SEE -61 WELDMENT |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | SPEC |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | USED ON MODEL |
| SCALE 1:2 | DATE 8/5/2014 SHEET 37 OF 50 |

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| REVISIONS | | | | | |
|-----------|---------|------------------------------------|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 2 | 15-0043 | -72 SHEET ADDED. | 2/11/2015 | PMW | JAG |
| 3 | 15-0326 | -72 CH'D DIM WAS Ø19.48 IS Ø19.60. | 10/7/2015 | RJC | JAG |



(-72)

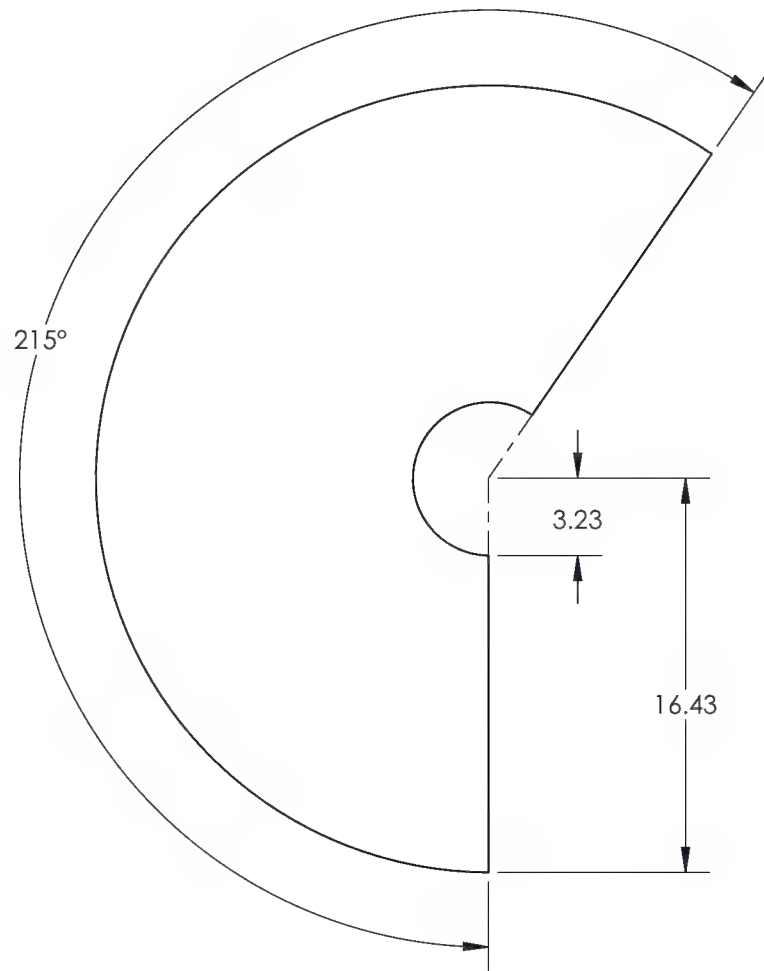
SHROUD, TRIPOD

NOTE:
1. VENDOR OPTION; TWO SEAMS OK.

| | |
|--|------------------------------|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-72 | REV 3 |
| MAT'L HR P&O | DRAWN BY: WALLRICH |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>J Gilbert</i> |
| .XXX ± .010 FRACTIONS ± 1/8 | HEAT TREAT |
| .XX ± .03 ANGLES ± 5° | FINISH SEE -61 WELDMENT |
| .X ± .1 | SPEC |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | USED ON MODEL |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| SCALE 1:8 | DATE 2/9/2015 SHEET 38 OF 50 |

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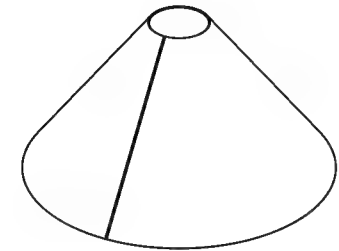
| REVISIONS | | | | | |
|-----------|-----|-------------------|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 2 | PMW | -72A SHEET ADDED. | 2/11/2015 | PMW | JAG |



FLAT PATTERN
FOR REFERENCE ONLY

-72A

SHROUD FLAT PATTERN, TRIPOD

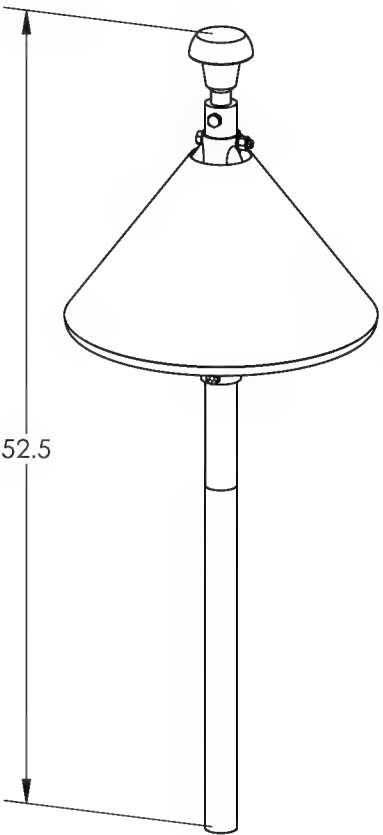
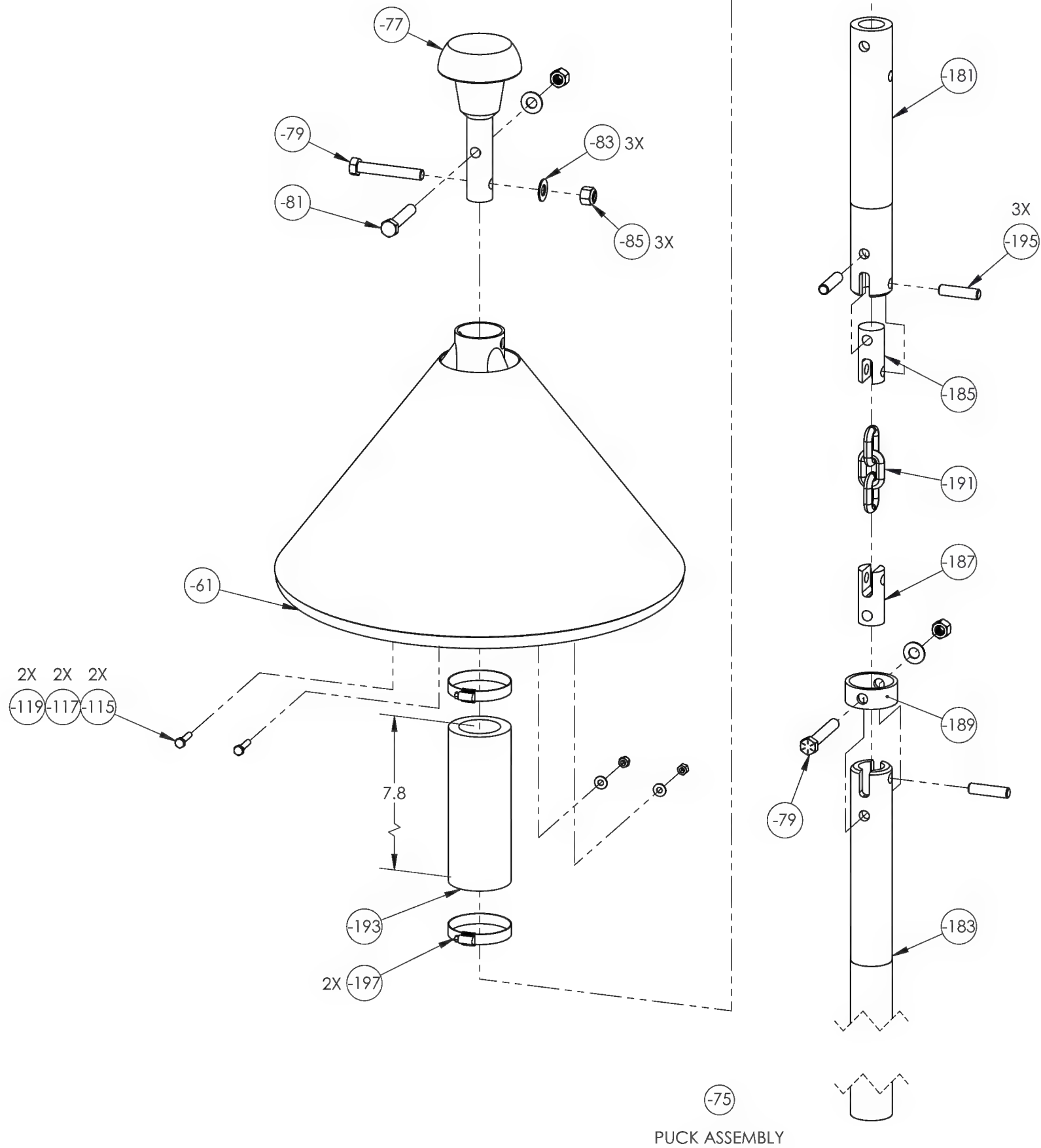


- NOTES:
1. USE DXF FOR PROFILE
2. VENDOR OPTION: 2 SEAMS OK

| | |
|--|------------------------------|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-72A | REV 3 |
| MAT'L HR P&O | DRAWN BY: WALLRICH |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>J Gilbert</i> |
| .XXX ± .010 FRACTIONS ± 1/8 | HEAT TREAT |
| .XX ± .03 ANGLES ± 5° | FINISH SEE -61 WELDMENT |
| .X ± .1 | SPEC |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | USED ON MODEL |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| SCALE 1:8 | DATE 2/9/2015 SHEET 39 OF 50 |

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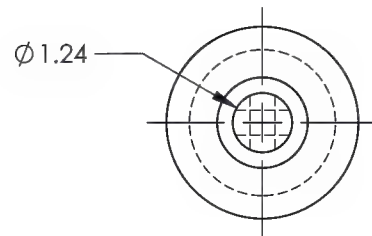
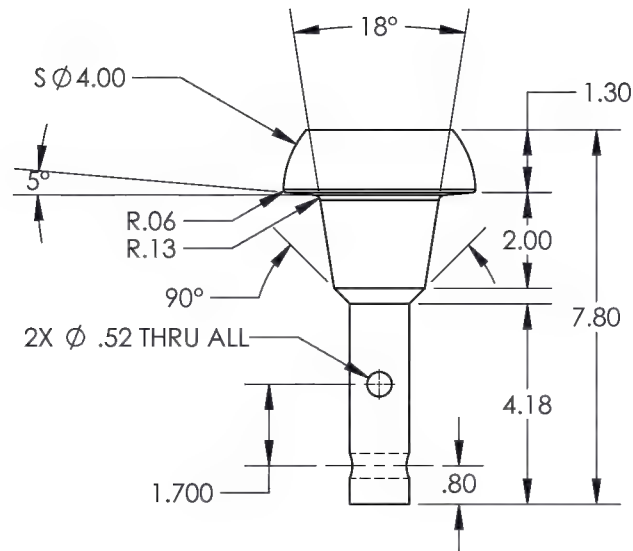
| REVISIONS | | | | |
|-----------|---------|------------------------------------|-----------|---------|
| REV | ECR | DESCRIPTION | DATE | INITIAL |
| 3 | 15-0326 | -75 ADDED OVERALL HEIGHT 52.5 DIM. | 9/28/2015 | RJC |



| DART AEROSPACE | | | |
|--|------------------|------------------------|----------|
| TITLE VERTICAL CAPTURE TRANSPORT | | | |
| DWG NO. VCT-5-75 | | | REV 3 |
| MAT'L | | DRAWN BY: GILBERT | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | | APPROVED <i>D Weil</i> | |
| .XXX ± .005 | | TREAT | |
| .XX ± .01 | | FINISH | |
| .X ± .1 | | SPEC | |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | | USED ON MODEL | |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | | | |
| SCALE 1:6 | DATE 8/6/2014 | SHEET 40 OF 50 | |

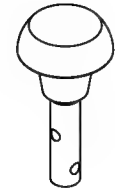
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| REVISIONS | | | | |
|-----------|-----|-------------|------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL |
| | | | | APPROVED |



-77

ANCHOR



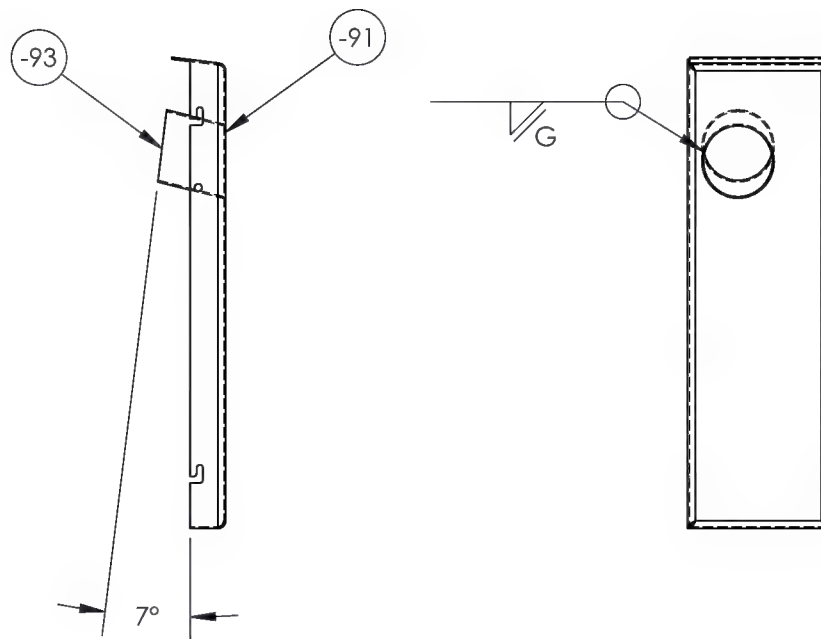
NOTE:

1. NICKEL PLATE .0004 - .0006, BAKE AFTER PLATING.

| | |
|--|----------------------------|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-77 | REV 3 |
| MAT'L 4140 Q&T/4142 Q&T | DRAWN BY: GILBERT |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>P Walbrich</i> |
| .XXX ± .005 FRACTIONS ± 1/8 | HEAT TREAT |
| .XX ± .01 ANGLES ± 5° | FINISH SEE NOTE 1 |
| .X ± .1 | SPEC |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | USED ON MODEL |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| SCALE 1:4 | DATE 8/5/2014 |
| SHEET 41 OF 50 | |

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| REVISIONS | | | | | |
|-----------|-----|-------------|------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |



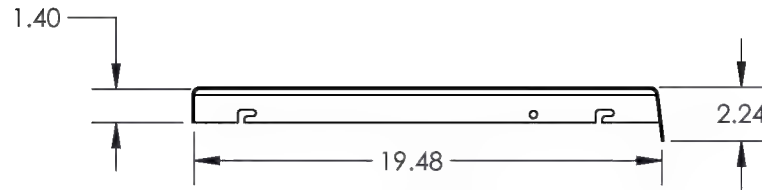
NOTE:
CENTER TUBE IN OPENING OF COVER AS SHOWN.

-89
COVER ASSY-SOLENOID SIDE

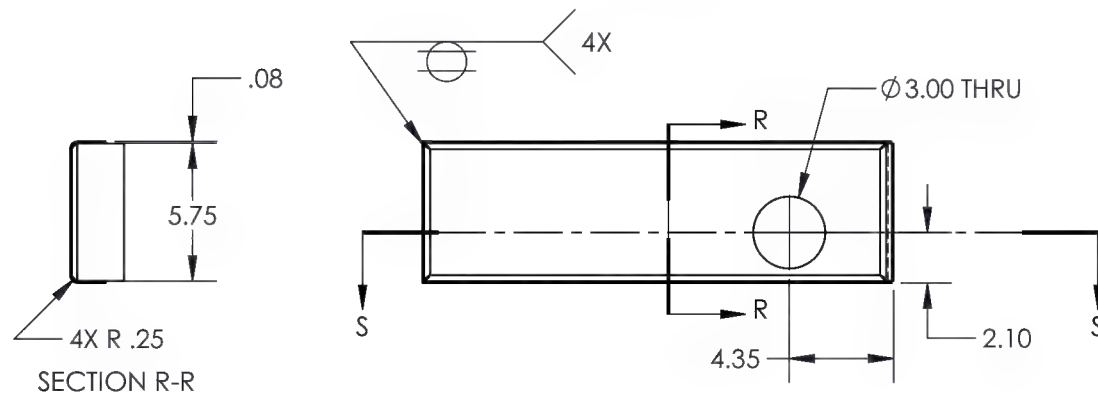
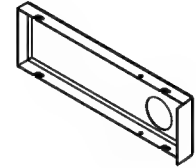
| | |
|--|-------------------------------|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-89 | REV 3 |
| MAT'L | DRAWN BY: GILBERT |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>D Weil</i> |
| .XXX ± .010 | HEAT |
| .XX ± .03 | TREAT |
| .X ± .1 | FINISH POWDER COAT LIME GREEN |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | SPEC |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | USED ON MODEL |
| SCALE 1:8 | DATE 8/7/2014 |
| SHEET 42 OF 50 | |

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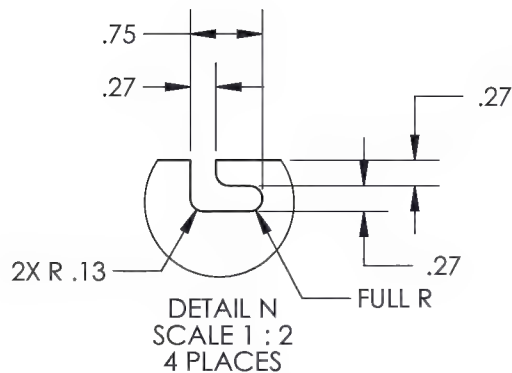
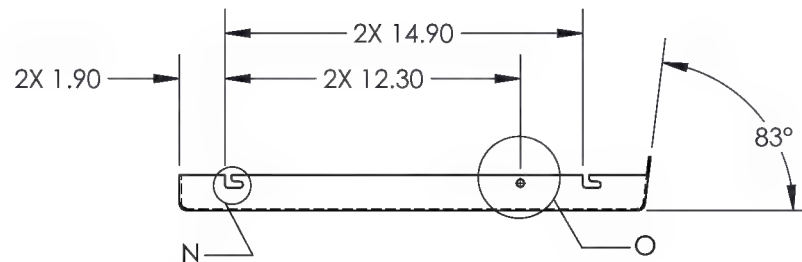
| REVISIONS | | | | | |
|-----------|---------|--|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 2 | 15-0043 | -91 REDESIGNED. | 2/11/2015 | PMW | JAG |
| 3 | 15-0326 | -91 CH'D MATERIAL CALLOUT WAS 1018 IS 1018/1020. | 10/8/2015 | | |



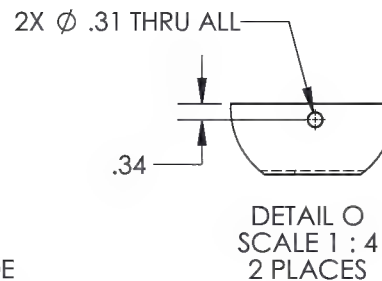
SECTION S-S



SECTION R-R



DETAIL N
SCALE 1 : 2
4 PLACES



DETAIL O
SCALE 1 : 4
2 PLACES

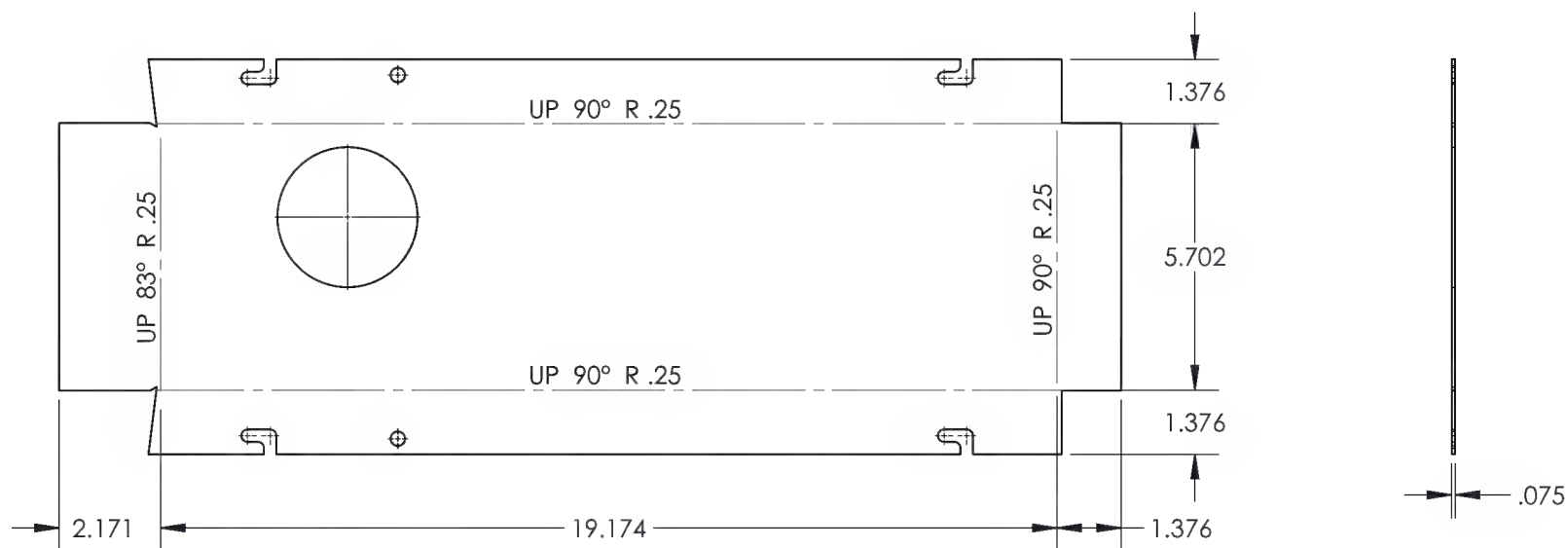
COVER-SOLENOID SIDE

NOTE:
WELD AND GRIND ALL SEAMS AND CORNERS.

| | |
|--|-------------------------|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-91 | REV 3 |
| MAT'L 1018/1020 | DRAWN BY: GILBERT |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>D Weil</i> |
| .XXX ± .010 | HEAT TREAT |
| .XX ± .03 | FINISH SEE WELDMENT -89 |
| .X ± .1 | SPEC |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | USED ON MODEL |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| SCALE 1:8 | DATE 8/5/2014 |
| SHEET 43 OF 50 | |

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|-----------|-----|-------------|----------|
| REV | ECR | DESCRIPTION | DATE |
| | | | INITIAL |
| | | | APPROVED |



FLAT PATTERN
DIMENSIONS FOR REFERENCE ONLY

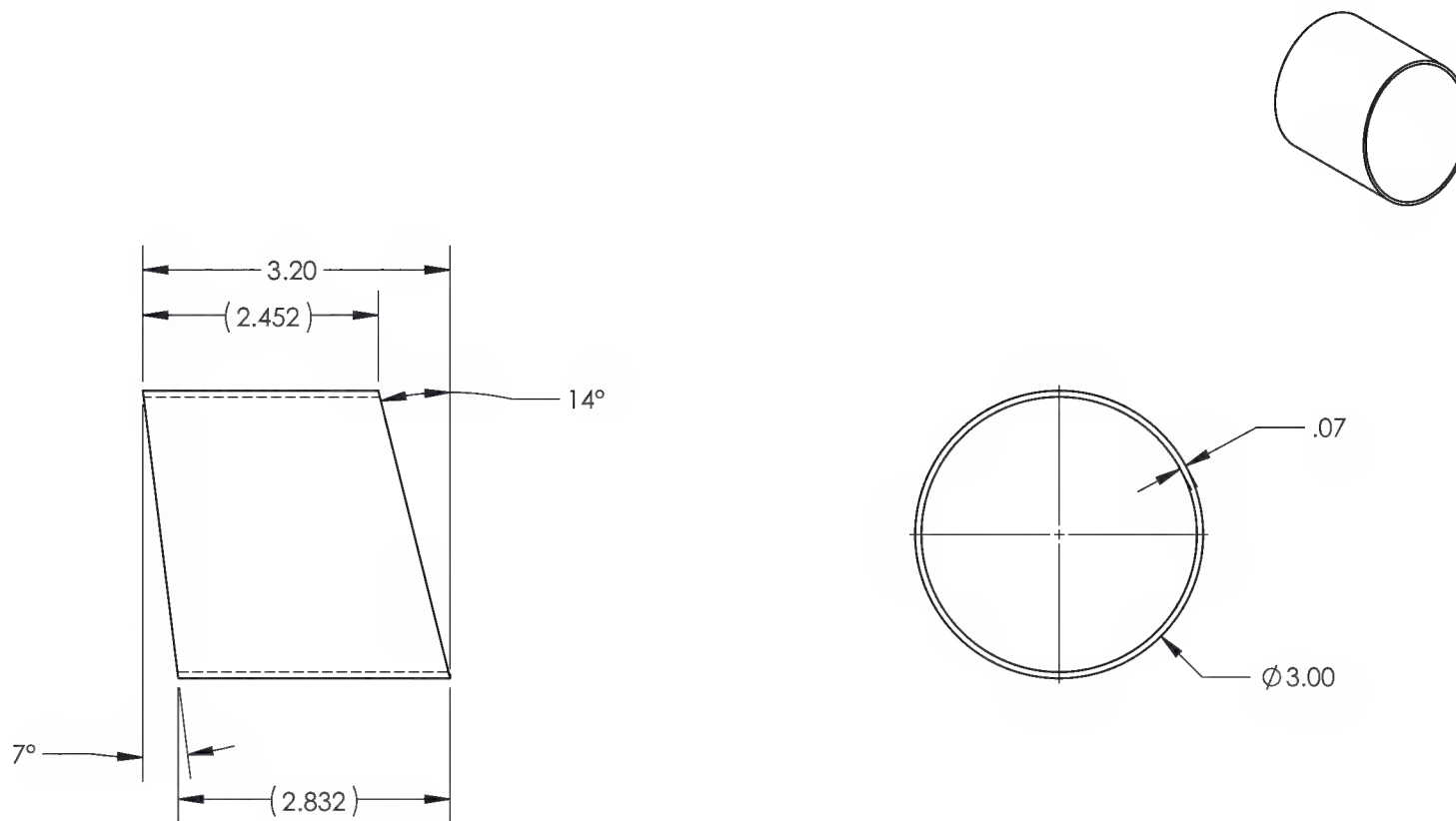
-91A

COVER-SOLENOID SIDE FLAT PATTERN

| | |
|--|-------------------------|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-91A | REV 3 |
| MAT'L 1018/1020 | DRAWN BY: GILBERT |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>D Weil</i> |
| .XXX ± .010 FRACTIONS ± 1/8 | HEAT TREAT |
| .XX ± .03 ANGLES ± 5° | FINISH SEE WELDMENT -89 |
| .X ± .1 | SPEC |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | USED ON MODEL |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| SCALE 1:4 | DATE 8/5/2014 |
| SHEET 44 OF 50 | |

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|-----------|---------|--|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 2 | 15-0043 | -93 DIM WAS 3.13 IS 3.20. | 2/11/2015 | PMW | JAG |
| 3 | 15-0326 | -93 CH'D MATERIAL CALLOUT WAS 1018 IS 1018/1020. | 10/8/2015 | RJC | JAG |



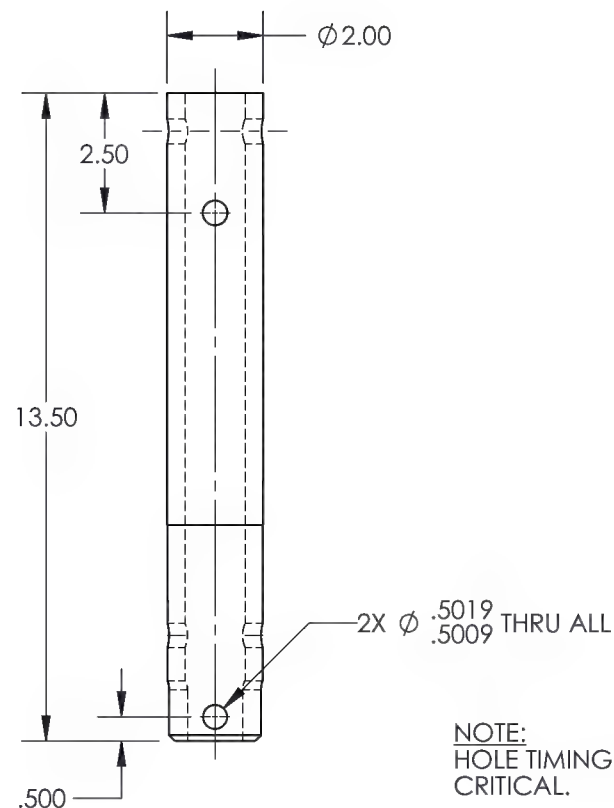
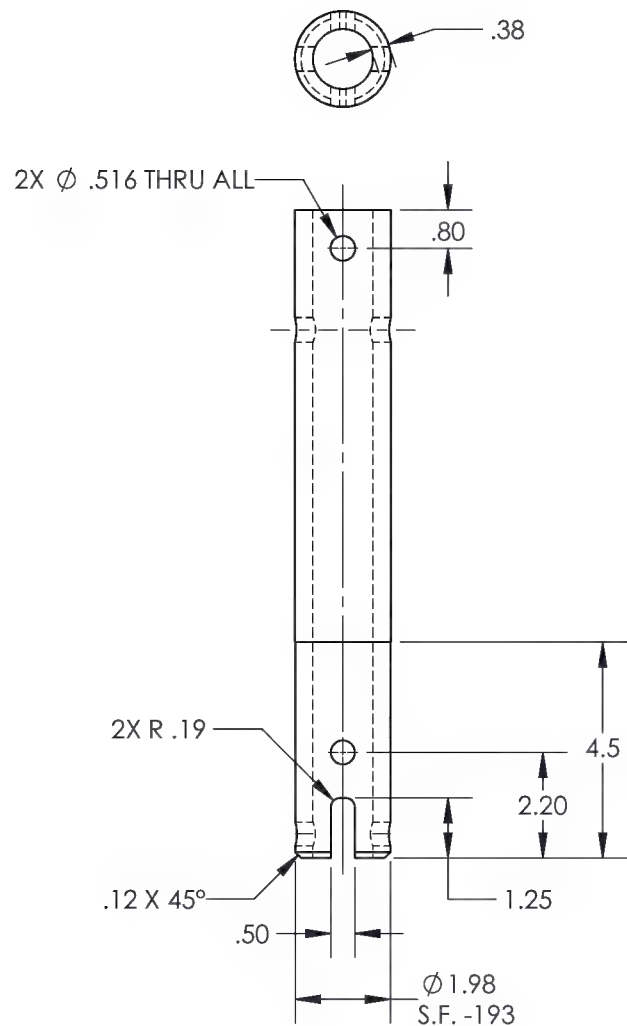
(-93)

COVER TUBE

| | | |
|--|---------------|-------------------------|
| DART AEROSPACE | | |
| TITLE VERTICAL CAPTURE TRANSPORT | | |
| DWG NO. VCT-5-93 | | REV 3 |
| MAT'L 1018/1020 | | DRAWN BY: GILBERT |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | | APPROVED <i>D Weil</i> |
| .XXX ± .010 FRACTIONS ± 1/8 | | HEAT TREAT |
| .XX ± .03 ANGLES ± 5° | | FINISH SEE WELDMENT -89 |
| .X ± .1 | | SPEC |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | | USED ON MODEL |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | | |
| SCALE 1:2 | DATE 8/7/2014 | SHEET 45 OF 50 |

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| REVISIONS | | | | | |
|-----------|---------|--|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 2 | 15-0043 | -181 ADDED DIMS .12 X 45°, Ø1.98 S.F. -193, 4.5. ADDED HOLE TIMING NOTE. ADDED FINISH POWDER COAT SAFETY ORANGE. | 2/11/2015 | PMW | JAG |
| 3 | 15-0326 | -181 CH'D FINISH WAS POWDER COAT SAFETY ORANGE IS POWDER COAT SAFETY YELLOW. | 9/28/2015 | RJC | JAG |



NOTE:
HOLE TIMING BETWEEN $\phi .516$ & $\phi .5009$ IS NOT CRITICAL.

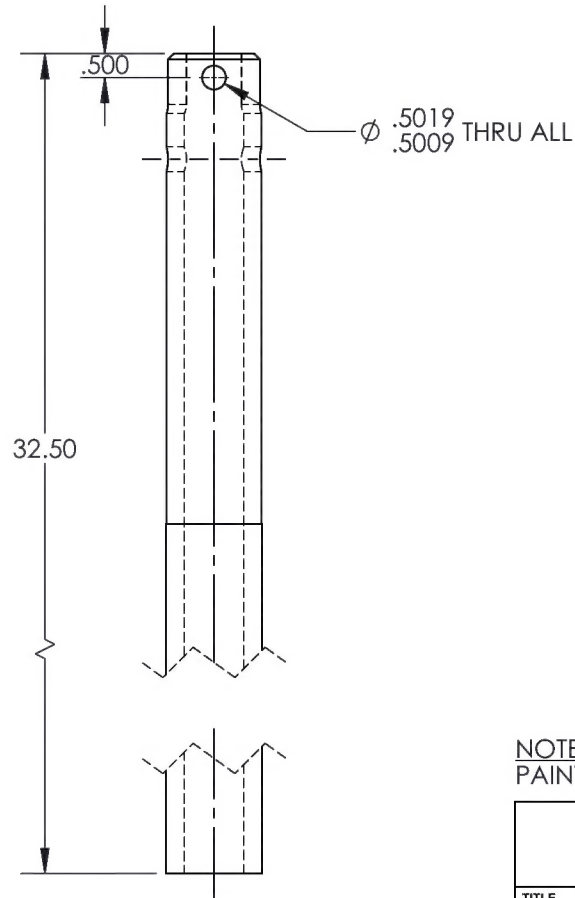
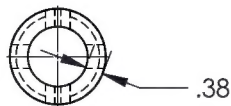
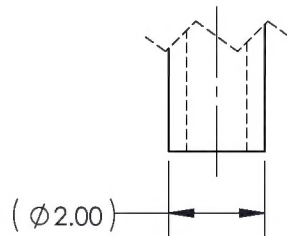
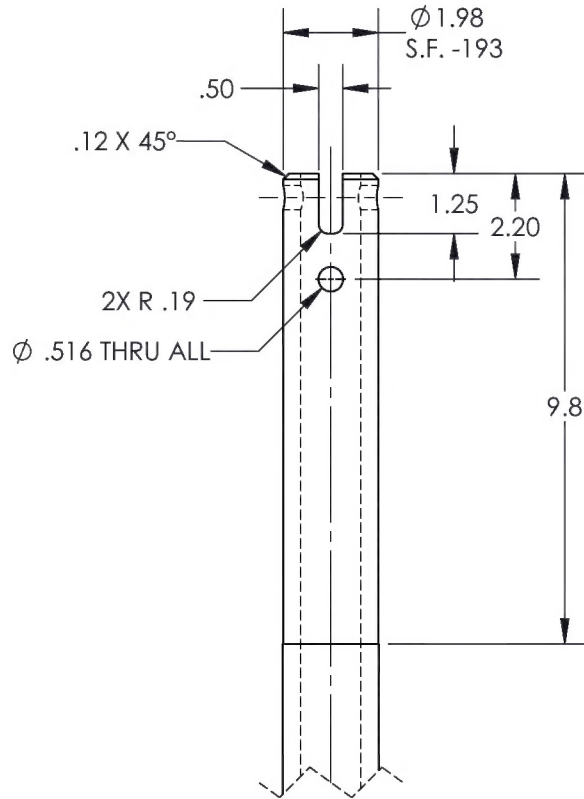
(-181)

PUCK TUBE UPPER

| | |
|--|--|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-181 | REV 3 |
| MAT'L CDS UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± 5° .X ± .1 | DRAWN BY: GILBERT APPROVED P Walbrich HEAT TREAT FINISH POWDER COAT YELLOW SPEC SAFETY YELLOW USED ON MODEL |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| SCALE 1:4 | DATE 8/5/2014 |
| SHEET 46 OF 50 | |

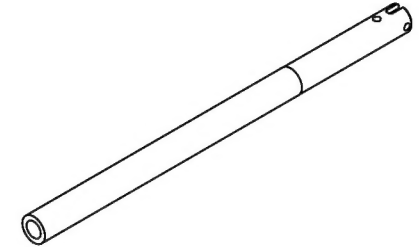
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| REVISIONS | | | | | |
|-----------|---------|--|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 2 | 15-0043 | -183 ADDED DIMS .12 X 45°, Ø1.98 S.F. -193, 9.8. ADDED FINISH PAINT GRAY OR RED. | 2/11/2015 | PMW | JAG |



(-183)

PUCK TUBE LOWER

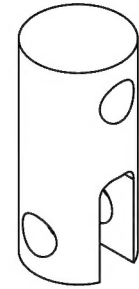
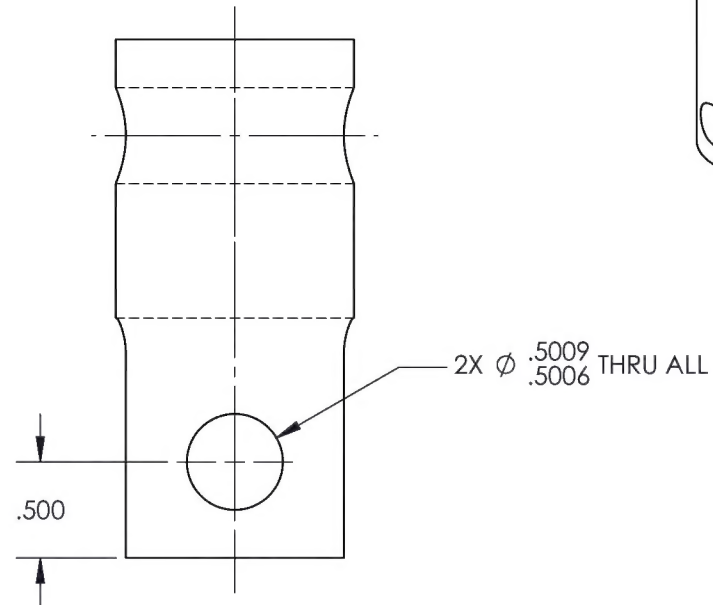
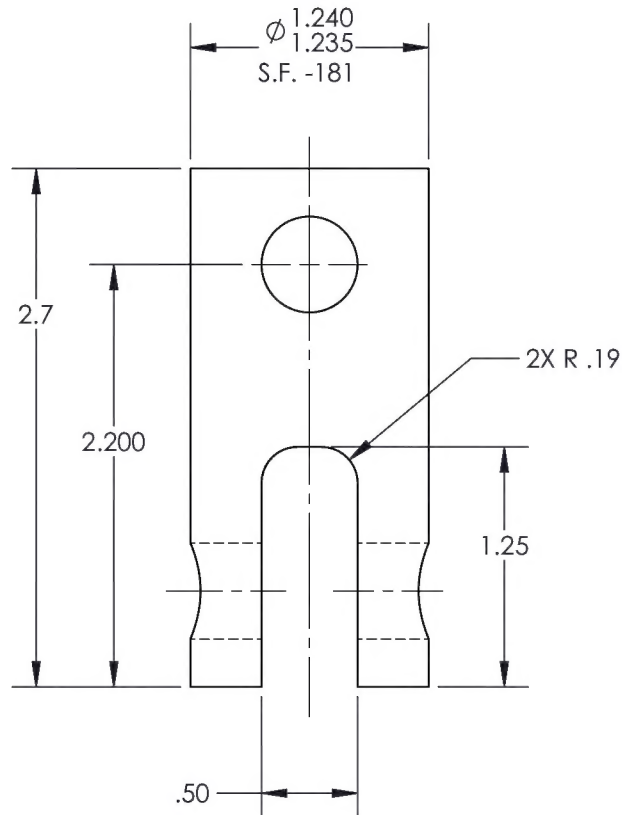


NOTE:
PAINT GRAY OR RED.

| | |
|--|---|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-183 | REV 3 |
| MAT'L CDS UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± 5° .X ± .1 | DRAWN BY: GILBERT APPROVED P Walbrich HEAT TREAT FINISH SEE NOTE SPEC |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| SCALE 1:4 | DATE 8/5/2014 |
| SHEET 47 OF 50 | |

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| REVISIONS | | | | | |
|-----------|---------|---|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 2 | 15-0043 | -185 CH'D DIM WAS Ø1.25 S.F. -181 IS Ø1.240(+.000 -.005) S.F. -181, WAS .4985-.4992 IS .5006-.5009 THRU ALL. CH'D MAT'L WAS 1018 IS 4140/4142. ADDED HEAT TREAT RC 35-39. ADDED FINISH PAINT GRAY OR RED. | 2/11/2015 | PMW | JAG |



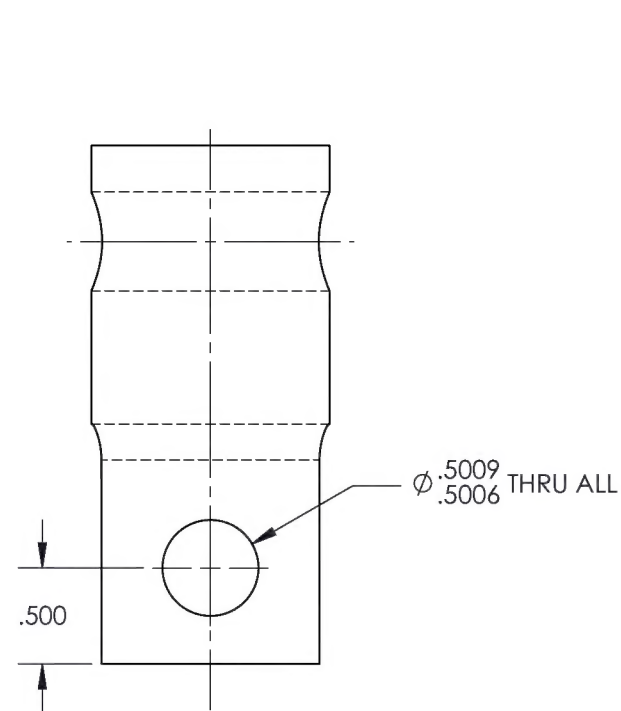
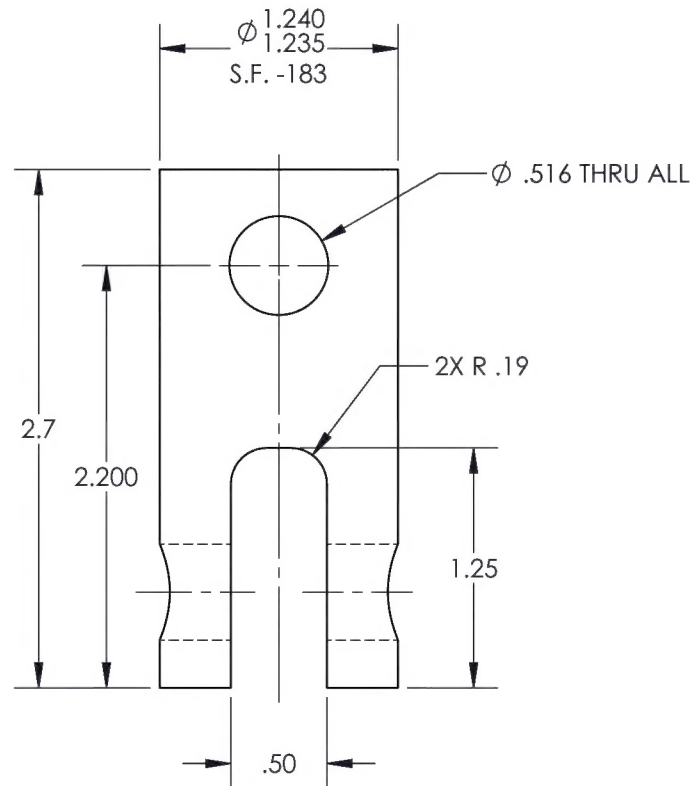
NOTE:
PAINT GRAY OR RED.

(-185)
TUBE INSERT UPPER

| | |
|--|----------------------------|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-185 | REV 3 |
| MAT'L 4140/4142 | DRAWN BY: GILBERT |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>P Walbrich</i> |
| .XXX ± .005 FRACTIONS ± 1/8 | HEAT TREAT RC 35-39 |
| .XX ± .01 ANGLES ± 5° | FINISH SEE NOTE |
| .X ± .1 | SPEC |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | USED ON MODEL |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| SCALE 1:1 | DATE 8/13/2014 |
| SHEET 48 OF 50 | |

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|-----------|---------|--|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 2 | 15-0043 | -187 CH'D DIMS WAS Ø1.25 S.F. -183 IS Ø1.240 (+.000 -.005) S.F. -183, WAS LIMITS Ø.4989-.4996 IS LIMITS Ø.5006-5009 THRU ALL. CH'D MAT'L WAS 1018 IS 4140/4142. ADDED HEAT TREAT RC 35-39. ADDED NOTE PAINT GRAY OR RED. | 2/11/2015 | PMW | JAG |



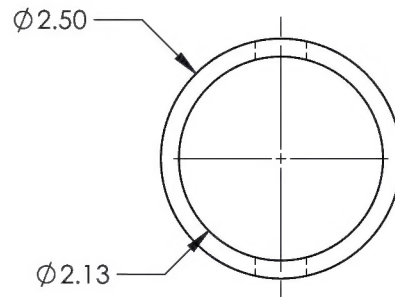
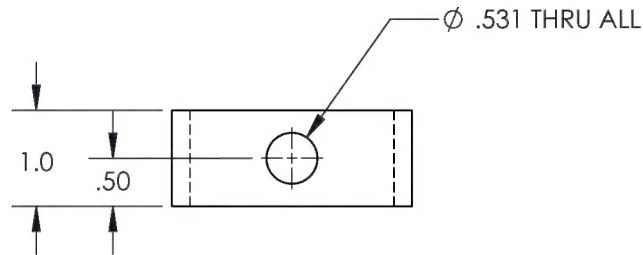
NOTE:
PAINT GRAY OR RED.

(-187)
TUBE INSERT LOWER

| | |
|--|----------------------------|
| DART AEROSPACE | |
| TITLE VERTICAL CAPTURE TRANSPORT | |
| DWG NO. VCT-5-187 | REV 3 |
| MAT'L 4140/4142 | DRAWN BY: GILBERT |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>P Walbrich</i> |
| .XXX ± .005 FRACTIONS ± 1/8 | HEAT TREAT RC 35-39 |
| .XX ± .01 ANGLES ± 5° | FINISH SEE NOTE |
| .X ± .1 | SPEC |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | USED ON MODEL |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| SCALE 1:1 | DATE 8/13/2014 |
| SHEET 49 OF 50 | |

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| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 3 | 15-0326 | -189 CH'D FINISH WAS POWDER COAT SAFETY ORANGE IS POWDER COAT SAEFTY YELLOW. | 9/28/2015 | RJC | JAG |



-189

STOP

| | | |
|--|--------------------------|---|
| DART AEROSPACE | | |
| TITLE VERTICAL CAPTURE TRANSPORT | | |
| DWG NO. VCT-5-189 | | REV 3 |
| MAT'L CDS UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± 5° .X ± .1 | | DRAWN BY: GILBERT APPROVED <i>P Walbrich</i> HEAT TREAT FINISH POWDER COAT SPEC SAFETY YELLOW USED ON MODEL |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | | |
| SCALE 1:2 | DATE 8/13/2014 | SHEET 50 OF 50 |